

Tuition debate

The U of A plans for a 6.4 per cent increase, and to establish differential fees.

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Starving Arts?

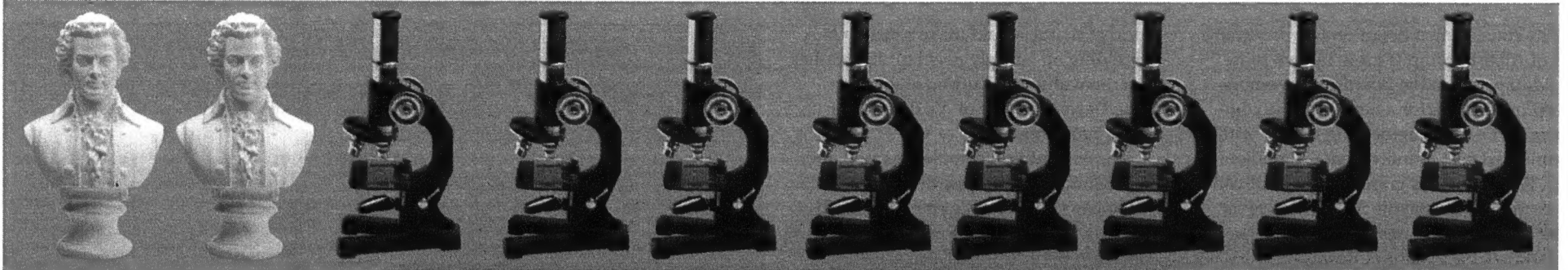
Research funding in Canada has reached record levels. But universities across the country want the federal government to dramatically increase funding for the 'human sciences'.

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Killam anniversary

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UNIVERSITY OF ALBERTA

folio

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Many computers make light work

Researchers connect thousands of computers to perform single experiment

By Richard Cairney

The University of Alberta has made Canadian computing history, harnessing the computing power from 21 facilities across the country to help conduct a single chemistry experiment that required trillions of operations.

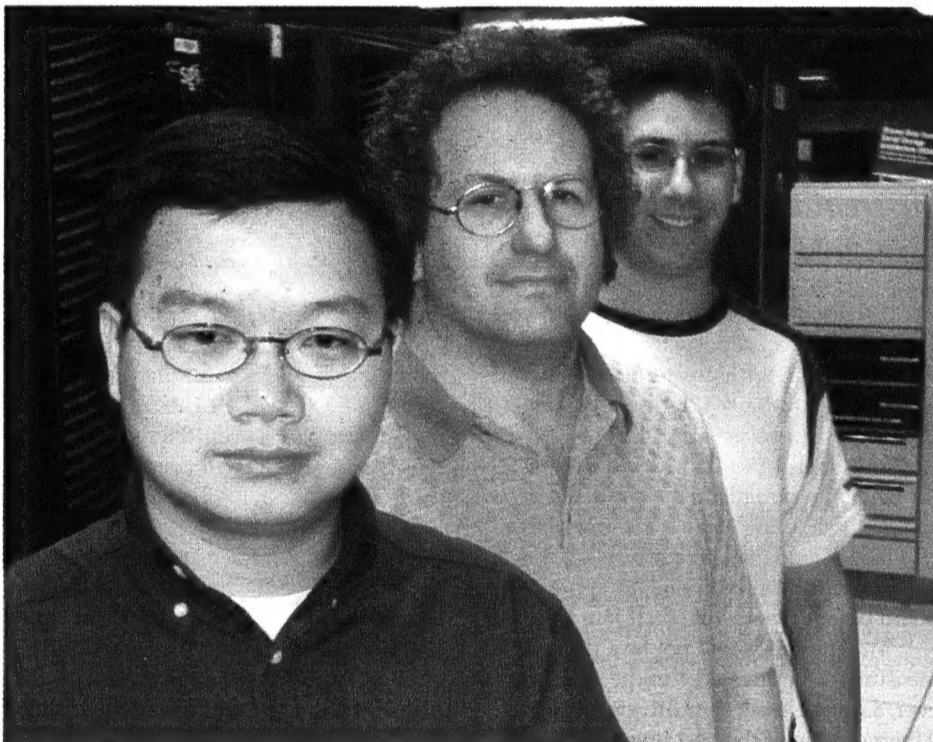
For 24 hours, from midnight Nov. 4 until midnight Nov. 5, the U of A linked 1,360 Canadian computers and examined the interaction between two molecules.

"During those 24 hours, 3.54 years' worth of computing was done," said Dr. Jonathan Schaeffer, a computer science professor at the U of A. As a conservative "ballpark" estimate, he said the computers had completed one hundred thousand trillion (100,000,000,000,000) operations to support research by one of this year's winners of a Natural Sciences and Engineering Research Council Steacie Fellowship, Dr. Wolfgang Jäger, a U of A chemistry professor.

Without the co-operative initiative, called the Canadian Internetworked Scientific Supercomputer (CISS), the research would have taken years to complete.

"This was a unique opportunity, something [Jäger] normally couldn't tackle," said Schaeffer. "He gets a massive amount of resources from across the country all being dedicated to his research. That's pretty impressive."

Schaeffer said the efforts of U of A computer science professor Dr. Paul Lu and his graduate student, Chris Pinchak, made the project a success. Lu and Pinchak developed the software which allowed the project to work.



Dr. Paul Lu, Dr. Jonathan Schaeffer and Chris Pinchak guided a national effort to harness the power of more than 1,300 computers for one experiment.

"They did a fantastic job. This is a breakthrough," said Schaeffer, who holds the Canada Research Chair in Artificial Intelligence. "A lot of software never gets out of the laboratory and they have taken this, and demonstrated it on a world stage, and it worked flawlessly. There are not a lot of people who can say they've done that."

"The trick is to find a problem so the software doesn't become the big onerous thing it can become," said Lu, adding that

Jäger's research was a good match for the computer scientists' goals.

The experiment Jäger and his group conducted examined the interactions between chiral molecules. A chiral molecule is structured in such a way that its mirror image cannot be superimposed on itself, in the same way that your right hand mirrors the left but cannot be superimposed.

"The idea of the experiment was to see how one chiral molecule recognizes the image or mirror image of another,"

said Jäger.

For example, Jäger said, if two people offer their right or their left hand they can execute a handshake without difficulty. If one person offers their right hand and the other offers their left, things go wrong.

"We wanted to see how this works at the molecular level," he said. To return to the handshake metaphor, the experiment fixed a right hand in one place then moved a right hand followed by a left hand around it.

"We wanted to calculate the intermolecular interaction energy at many thousand points of the one molecule around the other molecule."

The experiment was one that Jäger and his colleagues, Dr. Yunjie Xu and Dr. Aiko Huckauf, never imagined they'd perform because they lacked the computing power to do it. In casual conversations with Schaeffer and Lu, a way to run the calculations was uncovered.

"We never thought about doing a calculation like this because it would be just impossible," he said. "On our Beowulf Cluster (computer) the project would have taken 1-1/2 years...this demonstrates the importance of cross-departmental talk."

Lu and Schaeffer hope more of these experiments will be conducted. "There is going to be a time for discussion with our partners and there will be a whole spectrum of opinions on whether this is was worth it," said Lu. "We hope to have won over some people - some I am sure we haven't, but we hope next time there will be new people involved." ■



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Campus building boom gains momentum

Board approves new engineering and sports facilities

By Richard Cairney

The construction boom on the University of Alberta campus grew by two more buildings when the Board of Governors approved plans for a new sporting complex and a new engineering facility with a combined cost of more than \$70 million.

Approval was granted Nov. 4 for construction of the Saville Sports Centre on the south campus and the "shelled" Markin/CNRL Natural Resources Engineering Facility.

The Saville Centre plans had been previously approved to include a renovation and addition to the existing U of A Balmoral Curling Club. But high cost estimates put the project in question.

When bids on the centre began to come in, "it became very apparent very

quickly" that it would make sense to look at building an entirely new building rather than renovating the curling club, said Doug Dawson, the U of A's director of capital programs.

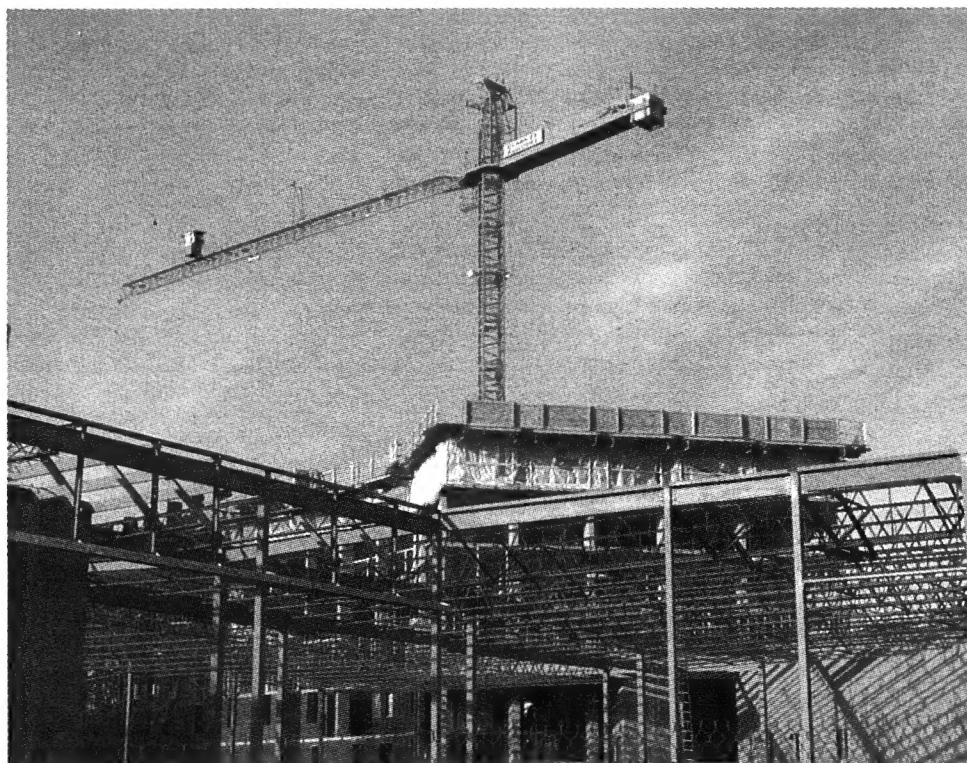
The \$6.5 million complex, named after Edmonton philanthropist Bruce Saville, will house the U of A's gymnastics facilities, now located at the Research Transition Facility. It will also accommodate 10 curling rinks and seven indoor tennis courts with the capacity to expand with additional courts outdoors. The centre will be located immediately south of the new Foote Field sports complex.

Construction on the project is set to begin next spring with the curling rinks completed in September and the rest of the building finished by November. The board was told the existing Balmoral Curling Club would face "eventual decommissioning."

The Faculty of Engineering has secured funding for the Markin/CNRL complex, said Brian Heidecker, chair of the board's finance and property committee, and intends to construct the building's shell at a more affordable cost now rather than pay more for it later.

Dawson told the board that delaying the project for 12 – 18 months would result in cost increases of more than \$1 million, and said the university will be seeking financial contributions from the provincial government.

The \$65-million, 30,000-square-metre



More construction projects will spring up on campus as an ambitious building program moves forward.

facility will be built on the site now occupied by the Hydraulics Lab on 116th street. The facility is named for Allan P. Markin, chairman of Canadian Natural Resources Limited (CNRL). In December, 2001, Markin announced he was donating \$3

million for the new facility with a matching \$3 million from CNRL.

The shelled construction is slated for completion in June, 2004, with the interior finished later that year or in early 2005, depending on funding. ■

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Administration proposes 6.4 per cent tuition hike

Differential fees planned for medicine, law, business

By Ryan Smith

University of Alberta administrators announced a proposal to raise tuition by 6.4 per cent, with greater increases planned for students entering medicine, law, and business programs.

Provost and Vice-President (Academic) Dr. Doug Owsram made the announcement at a media briefing Nov. 7. The proposal will be discussed at various university committees and councils before the U of A Board of Governors vote on it Jan. 17, 2003.

"We know this will not be a popular measure," Owsram said. "In the end, however, a degree from the University of Alberta is one of the best investments a student will ever make. We have a duty to ensure it remains so."

University of Alberta Students' Union (SU) President Mike Hudema spoke out against the increase after the press conference. The SU then held its own press conference Friday morning, at which Hudema again objected to the proposed increase, calling it "an attack on accessibility" to the university.

According to the proposal, tuition would increase by \$258 for the average arts or science student next year, bringing the average cost of tuition at the U of A to \$4,290 per year.

For medical students, the proposal calls for tuition to rise more than \$2,000 per year for the next three years, making the cost \$12,037 per year in 2005-06.

Tuition for law students would grow from its current \$4,300 per year to \$8,575 in 2004-05, while tuition for the bachelor of commerce program would increase by \$700 to \$4,990 next year. The cost to enter the MBA program would rise to \$9,778 in 2004-05 from \$4,491 this year. All of the increases would be "grandfathered,"

meaning they would not affect students currently enrolled in these programs.

Hudema and Anand Sharma, vice-president (external) of the SU, opposed the general 6.4 per cent increase, saying higher tuition fees will prevent people from low income families from attending the U of A. They also objected to the "differential tuition increases" – steeper tuition increases for medicine, law, and business – noting that six professional associations, including the Canadian Medical Association and Canadian Bar Association, have spoken out against differential tuition increases.

Owsram argued differential tuition increases would bring the U of A in line with costs for similar programs at comparable Canadian universities. Currently, medical school tuition costs \$9,760 more per year at the University of Toronto than it does at the U of A. An MBA degree is more than \$10,000 per year more expensive at the University of British Columbia than at the U of A. And the law program at Queen's University is more than \$3,400 per year more expensive than the U of A law program.

Owsram also said the U of A is currently suffering from "severe financial stress." As an example, he noted utility costs at the U of A increased by \$8 million in the past year. He added that tuition increases are necessary to supplement operating funds the university receives from the provincial government.

If the proposed increases are passed, revenue from student tuition will equal 26 per cent of the U of A's operating budget. According to Alberta law, tuition cannot account for more than 30 per cent of a post-secondary institution's operating

budget.

"We are currently eight of ten in funding among Canadian provinces," Owsram said. "We are facing budget shortfalls and will run a deficit budget this year. Without raising tuition to the levels we are proposing, the University of Alberta will have no choice but to institute deeper cuts, cuts that will cause deterioration in the quality of education."

He added that earlier this year the U of A had instituted \$14 million in budget cuts over the next three years. However, the SU contends the U of A spends more on administration, travel, furniture, and professional costs, on average, than its "peer" universities. Hudema said U of A administrators need to get their own spending under control before asking students to pay higher tuition. Owsram contests the numbers used by the SU to make this point, and he does not believe administration costs are out of line at the U of A.

"Administration costs at this university account for four per cent of total expenditures," Owsram added. "According to the provincial government's annual reports, our administrative costs are lower as a per cent of total costs than any other university in the province."

Both the student leaders and U of A administrators agree more funding from the provincial government would help solve the problem.

The Students' Union is planning a number of forums and discussions on the tuition issue for the days leading up to the Jan. 17 Board of Governors meeting. The U of A will hold a public Tuition Town Hall meeting from 12 noon to 1:30 p.m. in University Hall's council chambers Nov. 27. ■

Closing the ingenuity gap

Research funding is at all-time high, but critics say it still falls short

By Richard Cairney

You only need to scan the headlines to know research funding at Canadian universities is rising dramatically. The University of Alberta is one of the top beneficiaries of that financial support. Just this week, the federal government kicked in \$7.7 million in funding when it named eight new Canada Research Chairs on campus – it's part of a steady stream of funding announcements.

Provincially, the Alberta Heritage Foundation for Medical Research has invested more than \$350 million in U of A research in the past two decades. A new funding agency, the Alberta Heritage Foundation for Science and Engineering Research, is also making impressive investments. This year, total sponsored research at the U of A approached \$290 million.

So on the surface, it seems unusual to suggest research funding is lacking. And yet Canadian universities are banding together to pressure the federal and provincial governments to buck up and address a research area they say is suffering a serious shortfall. Research support in the social sciences and humanities, they say, has been neglected long enough. Ratcheting up funding now could boost Canada's international reputation and prepare the country to deal with social and political issues brought on by rapid technological advances and to better understand the world we live in.

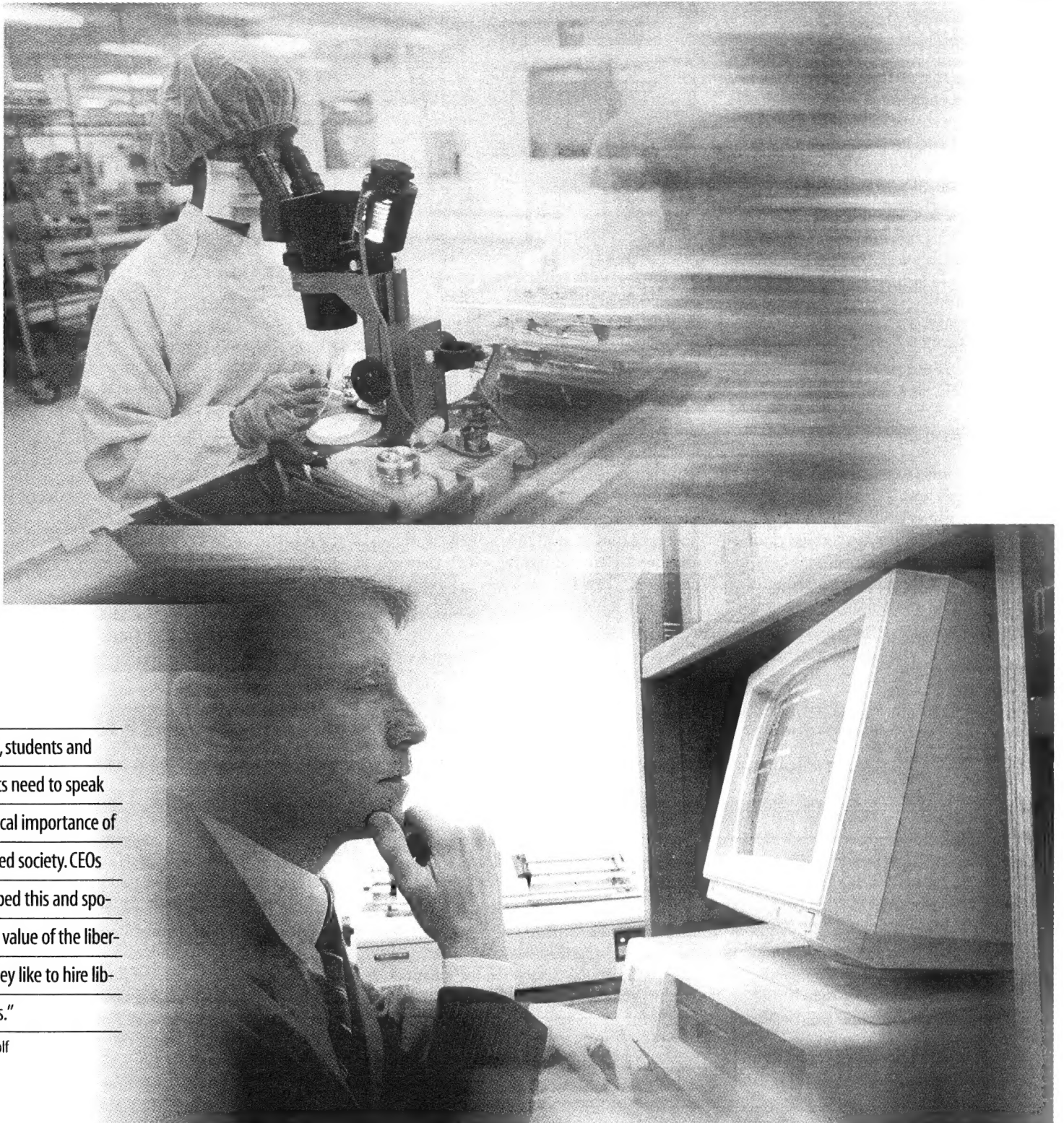
Indeed, funding for such research hasn't kept pace with the enormous investment in other areas. This year's budget for the Social Sciences and Humanities Research Council, for example, is \$167 million, with \$154 million available for grants and scholarships. It sounds impressive but pales in comparison to money available to other researchers. The Canadian Institutes of Health Research have a budget of \$650 million, and the Natural Sciences and Engineering Research Council's budget for this year is \$678 million, including \$15.6 million in undergraduate research awards and \$57.1 million in post-graduate scholarships.

Considering that some 60 per cent of university students and 50 per cent of faculty fall within the boundaries of arts funding, the difference becomes, in the words of Faculty of Arts Dean Daniel Woolf, "a glaring disparity."

Universities across the country are banding together to close that gap. A week ago, Woolf and his counterpart from the University of British Columbia sent a letter to Finance Minister John Manley and Industry Minister Allan Rock, urging them to increase funding to SSHRC.

Dr. Doug Owram, the U of A's Provost and Vice-President (Academic), recently wrote Prime Minister Jean Chretien detailing possible Canadian solutions to the "ingenuity gap," along with vice-presidents academic from the University of Western Ontario, McMaster University, and York University as well as the vice-president of research from the Université du Québec à Montreal and the University of Toronto's provost emeritus.

The letter acknowledges the importance of research in science and medicine



Some research efforts cost more than others: medical researchers require expensive laboratory equipment while those studying areas such as public policy generally require less money for infrastructure. However, Canadian universities want to bridge a funding gap between science and technology research and work that probes the human sciences.

"We as academics, students and parents of students need to speak out about the critical importance of the arts in a civilized society. CEOs have already grasped this and spoken out about the value of the liberal arts and why they like to hire liberal arts graduates."

— Dr. Daniel Woolf

but warns the imbalance between social and technological research will lead to social difficulties as the nation struggles to keep up with the rapid advance of technology. Issues such as the environment, population growth, health policy and international relations are more matters of policy than of technology and innovation, the letter says: "Further advances in innovation are unlikely to resolve these problems without further analysis, understanding and assessment of how humans set values and organize their lives.

"The investment of the federal government in research and development is welcome and perhaps even revolutionary, not the least for the way it encourages advanced education to adjust to the knowledge economy. However, there is a gap. The overall impact of the Canada Foundation for Innovation, Canada Research Chairs and increase in the budgets of granting agencies is focussed (though not exclusively so) on areas of technology...

"If we are to realize our potential as a nation, domestically and internationally, we need to complete the federal initiatives

by taking one more step – give our researchers and our future leaders in the human sciences the tools necessary to close the ingenuity gap, thereby enhancing Canada's leading status as a place to live and its reputation and contribution abroad."

Owram says he and Dr. Patricia Clements, a U of A English professor and president of the Humanities and Social Sciences Federation of Canada, (Owram takes over the presidency of the federation this month) began holding meetings this summer with representatives of other universities to discuss ways of making funding for the human sciences a national priority.

"We are not just coming in as a cold-call interest group either," said Owram. "The federal government itself wants to make Canada a leader in research and innovation, and their innovation strategy is part of that . . . You have to have a society that looks at public policy and cultural issues. People think culture is something you can ignore, but if you look at things like understanding Islam today, that has a lot of implications."

There are more practical reasons to increase such funding, too. The university professors who educated baby boomers are retiring, and Canada needs to educate their replacements. For that reason, graduate and post-graduate scholarships in the human sciences need to increase. U of A Graduate Students' Association President Brad Wuetherick says the shortage of such awards is blatantly obvious. Graduate students from across the country have also been heavily involved in lobbying for greater support.

Everyone can get involved in the effort, says Woolf, who adds that no one wants current cuts to agencies that fund medicine and technology, but rather to have the federal government make "another good decision" to increase funding to social sciences and humanities.

"We as academics, students and parents of students need to speak out about the critical importance of the arts in a civilized society. CEOs have already grasped this and spoken out about the value of the liberal arts and why they like to hire liberal arts graduates." ■

Profs should promote liberal arts education

Great things await Arts graduates

By Joan Schiebelbein

Arts graduates find jobs. Good jobs. Jobs for which their Bachelor of Arts degree is a requirement. That's the message that we should be sending to both current and prospective Arts students.

The message we should not be sending to students is that Arts graduates have two options upon completion of their undergraduate degree: work at a restaurant or drive a cab. I was dismayed recently when an Arts student told me that this is what the professor for one of her Arts classes had said. While the professor was probably (hopefully) joking, she was also perpetuating a tired old myth, one that those of us in the career development profession try hard to debunk.

Another fallacy that undergraduate Arts students often hear from their professors is that they must go on to graduate school and pursue a career in academia if they really want to "use their degree" to make a living. Often the only other option presented is to see a BA as a stepping stone for entrance into a "professional" faculty, such as law. While these are certainly viable career options that many Arts graduates pursue, they are certainly not the only choices.

The fact is that many Arts graduates find challenging and rewarding work with

an undergraduate degree. I'm living proof. I have a BA. Among other things, my job requires strong research and writing skills, an ability to analyze and synthesize ideas and information, and an ability to learn. These are skills I gained from a liberal arts education. Many people I graduated with and work with also have an Arts degree, and are also in jobs for which their degree is, if not a requirement, at least a strong asset.

The personal narrative can be a powerful tool for debunking the myth that a BA offers few viable career options. Unfortunately, it can also serve to sustain this myth. I am willing to concede that some Arts graduates do end up in jobs for which they are overqualified. But what troubles me is that it is often only these stories that get told. Many people believe that these graduates' experiences are indicative of all Arts graduates. This has some disturbing consequences, not the least of which is the anxiety it creates for Arts students. Some students believe so strongly in the myth that they switch from studying a subject they have a passion for to a program of study for which the career options are clearer but for which they are ill suited. This in turn leads to a high degree of job dissatisfaction.

For those who require empirical rather than anecdotal evidence about the employability of Arts graduates, there are many studies which illustrate the fact. For example, in 2000 the University of Alberta's Career and Placement Services (CaPS) conducted a survey of U of A graduates. We asked graduates about their experiences six months, three years and five years after graduation. The survey validated many of our beliefs about a liberal arts education. For example, 32 per cent of graduates responded that their degree was required for the job they held six months after graduation. Five years after graduation, this number jumped to 64 per cent. We did not ask the remaining 36 per cent if their degree was an asset in the job they held, but the survey did confirm our understanding that Arts graduates may take longer to "get on a career track" than graduates of professional, vocational and technical programs.

Another study that debunks the myth that Arts graduates are unemployable is *Education and Technological Revolutions: The Role of the Social Sciences and the Humanities in the Knowledge Based Economy* by University of British Columbia professor Robert C. Allen. Dr. Allen examined and compared census data from 1996 and 1991. He found that "the demand for

graduates in the social sciences and humanities is growing rapidly, that they earn high salaries, and that the rate of return to investing in their education is as high as that of sciences and engineering."

Professors' words carry a great deal of weight with students. I strongly encourage professors and instructors to send a positive message to Arts students about the value of their degree. An Arts degree opens up a world of career opportunities. This can be daunting for many Arts students, so we should be advising them to explore their options and think about what they can do in addition to their academic studies to realize their career goals. Finally, we should help them recognize that the value of an Arts degree extends well beyond the world of work. In the words of former dean of the Faculty of Arts, Patricia Clements, a BA teaches students "to live and to learn and to earn."■

(Joan Schiebelbein is Manager of Advising Services at Career and Placement Services at the University of Alberta. The CaPS Employment Survey of University of Alberta Graduates of 1995 can be downloaded from the CaPS web site at www.ualberta.ca/CAPS/CaPS_a7.html. The Allen report can be downloaded from the Social Sciences and Humanities Research Council Web site at www.sshrc.ca/web/home_e.asp.)

folio letters to the editor

Parking Solutions: Knockout or Knockdown?

Editor, *Folio*:

Two weeks ago the Board of Governors approved Proposal 1-1 of Funding Solutions by a wide margin. All this in spite of an unprecedented outcry (more than 300 e-mails opposing the proposal) from academic and support staff during the previous week. So on April Fools' Day, parking rates on campus will rise by up to 45 per cent.

In the majority of cases the financial impact itself will be a significant financial burden, because students alone constitute about 55 per cent of parking services' clientele. There was also clear recognition that, in reality, "parking rate increase" is merely a thinly disguised veil for a roll-back in salary (and an increase in tuition), and that rankled. Above all, however, there was a strong expression of general betrayal: this appears to be the reward for,

in the words of Phyllis Clark in the Nov. 1 issue of *Folio*: "...the U of A's remarkable successes of the past several years." It begs the question: has anyone in the administration given thought as to who deserves credit for those successes if not the very targets of this claw back? In brief, the message from university employees could not have been less ambiguous: You are shafting us, and not even blinking.

Considering that students comprise about 55 per cent of parking services' clientele, I was puzzled at first that the voice of student representatives on the board should be so equivocal. But at the board table there was an explicit reminder that every dollar lost from parking services would be another dollar added to tuition fees. Undoubtedly you will smile at my naiveté, but this playing off one seg-

ment of the community against another (or even against itself) disheartened me that day as much as anything else.

So university employees and students clearly have been knocked down in Round 1, but have we been knocked out, or will there be a Round 2? My sense is that further negotiation or appeal to reason by the staff associations will lead nowhere; the administration has heard, and chosen to ignore, 300 common-sense arguments that this tax grab will be counter productive. Apart from actions that specific individuals may choose to take, there can be only two ways for a Round 2: a mobilization of further opposition by the staff associations, or an ad-hoc group arising independently – basically (if you'll pardon the rhetoric) a "Peasants' Revolt". It would be most unfortunate if it came to that, because

clearer thinkers than me have identified the true source of the problem: it's not really the administration or Board of Governors who deserve our wrath, but the provincial government which, through long-term under funding of post-secondary education, has placed our administration in a no-win position. As Professor Jack Macki expressed so astutely in his letter to *The Edmonton Journal* on Nov. 3:

"The last time I checked, Alberta ranked near the bottom of all provinces and states in per-capita and per-student support of higher education....I just think that Albertans should be informed of the disgraceful level of financial support for higher education in this province."

Amen. ■

Reuben Kaufman
Academic Staff Representative on
the U of A Board of Governors

Merely complaining won't solve parking problem

Editor, *Folio*:

The Board of Governors' recent decision to push through increases to monthly parking rates has become a sore spot for much of the University of Alberta community.

In my travels and conversations regarding the parking issue I have come across a few common threads: everyone is opposed to it; most are willing to voice their opinion; very few are willing to take any type of action to show the University of Alberta that this is not the way to solve the "extremely serious" budget situation, as Phyllis Clark describes it.

Ask anyone who is opposed to the parking increases if they still plan on driving once the increases take effect and you're

sure to get a sheepish "well, yes" answer.

The point is that the university expects you to keep coming to work, one person per vehicle, and to pay the increases.

There is no doubt that this is a financial issue. The easiest way for you to make your point is to fight back financially. Contrary to popular belief, there are alternatives to paying the increases to parking rates.

Public transit is one option. It may not work for everyone but it's as good a place as any to start. A monthly pass on ETS is \$55. That's lower or equal to the new rates. For students, a \$50 pass is equal to the lowest of the new rates. Throw in the ridiculous prices we pay for gas and it's a no-brainer that this is a cheaper alternative. The environmental benefits are just a

bonus.

How many of you drive to work each day by yourself? I come to work via Belgravia and 114th Street; I see you in your cars all alone.

Did you know parking services has provisions for car pools? You can register as a car pool and have a parking pass that is transferable between two or more cars. Think about it: if you teamed up with just one other person who parks in Stadium, the revenue generated would be 30 per cent less – and that's with the increase.

Yes, there are people among us who have no option but to drive to work. But for many of us, and we are the ones who can do something about this, driving in alone to work is the most convenient way

to get here. Finding alternative modes of getting to work would mean getting off our behinds and finding someone to car pool with, or getting up half an hour earlier to catch a bus, or dusting off the bike, buying a helmet, and getting in shape.

The next time you write that letter, send an e-mail, or complain to me in the elevator about the parking increases, make sure you're ready to say what you are doing about it other than voicing your opinion. Remember the old saying: "Money talks.... (you know the rest)."

Tim Schneider
Web Supervisor - Creative Services
University of Alberta, Office of
External Relations

Forum provides first-hand information on Kyoto

Panelists debate merits of international accord

By Gilbert A. Bouchard

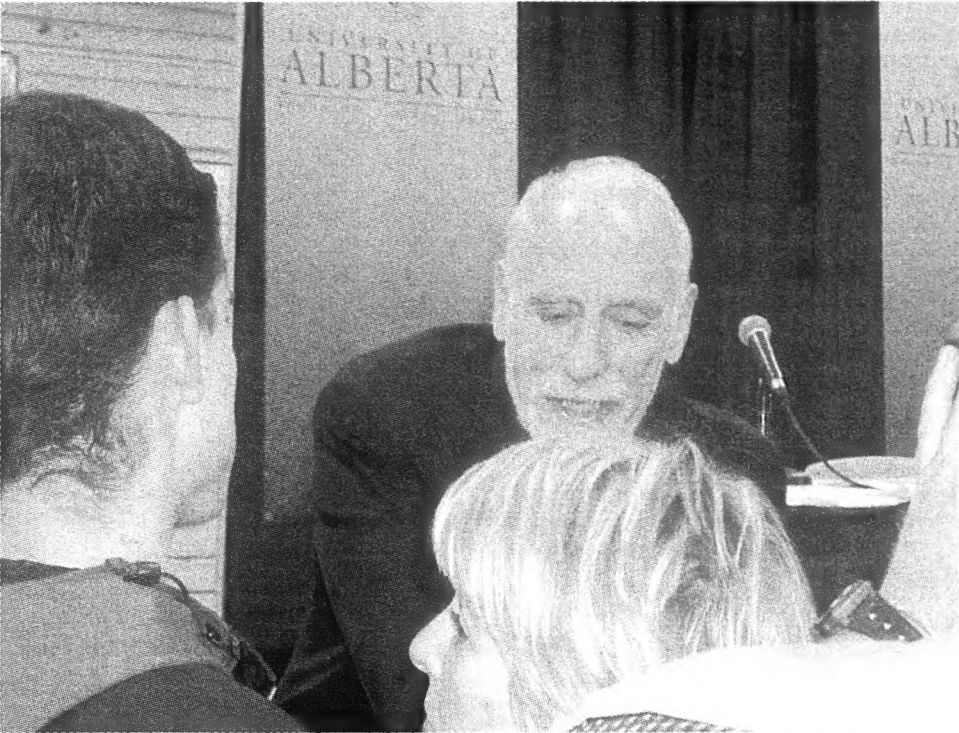
Panelists at a forum on the Kyoto Accord co-hosted by the University of Alberta all agreed on one thing: action needs to be taken on global warming. But they disagreed heartily as to what that action entails.

About 800 people gathered in the main gymnasium of the university's Van Vliet Centre to hear speakers at the Nov. 12 event. Speakers ranged from Dr. Mike Percy, dean of the U of A School of Business to federal Environment Minister David Anderson.

Percy is a proponent of a made-in-Canada solution to greenhouse gas emissions, with longer timelines than those proposed by the Kyoto Accord. Anderson, on the other hand, underlined the inevitability of Canada's ratification of the agreement and called for an end to "paralysis by analysis".

Rounding out the panel were U of A mechanical engineering professor Dr. David Wilson, who questioned the impact of Canada's overall emissions; internationally renowned U of A water ecologist Dr. David Schindler, who addressed the frightening realities of global warming; and Pembina Institute executive director David Pollock, who addressed the moral and practical reasons for taking action on climate change.

Perhaps the hardest-hitting presentation was delivered by Schindler, who painted a picture of a future plagued by global warming, drought and forest fires. Illustrating his talk with slides and graphs documenting climate change across the Prairies, Schindler says north-central



Federal Environment Minister David Anderson addresses the audience during a forum on the Kyoto Accord held on campus Nov. 12.

Alberta was relatively dry even before the current drought, and that plummeting river flows promise little future relief.

"We will not be able to cope with the four to seven degree (temperature) increases predicted for the next century," he said.

Increasing temperature also increases the danger of forest fires already at an untenable level, says Schindler. "If we got the U.S. Air Force to attack our forest fires instead of Iraq, we still couldn't

handle them."

Wilson, whose research focuses on pipeline ruptures and the release and dispersion rates of toxic gases, says the proposed reduction in Canadian emissions under Kyoto are negligible in a relative sense and not worth the grief they'd impose.

"China's emissions are growing at five per cent per year which would match our whole reduction in emissions for 10

years," he said.

Pollock, calling the debate on emissions the "greatest intellectual challenge of our time," believes that we need Kyoto for any action to take place. And while we may only produce three per cent of the world's total emissions, we're still the ninth largest producer in absolute terms.

"It's a question of doing Kyoto stupidly or of doing it smart," he said. "We need the right mix of action and there's a lot of dishonest information out there."

Citing the "footloose" nature of international capital, Percy said Canada risks a flight of investment if it becomes the only member of the North American Free Trade Agreement to sign onto Kyoto.

"They (investors) will choose the U.S. or Mexico simply because of the uncertainty created by Kyoto," Percy said. "Why the rush to ratification? There's no clear pressure to ratify by the end of November."

Arguing that an international problem such as greenhouse gases calls for international solutions, Anderson countered charges that the federal government is rushing into anything.

Not only have negotiations between Canada's 14 governments been ongoing for the past five years, he noted that Prime Minister Jean Chretien stated in June 2001 that a decision about Kyoto ratification would be reached in 2002.

"Yes, we face a short timeframe, but it's only going to get shorter if we keep on delaying," Anderson said, agreeing with Alberta Premier Ralph Klein that there is "zero to very slight" odds of the ratification not taking place. ■

Owram stepping down as Provost and VP (Academic)

Plans to return to teaching and research

By Richard Cairney

It was 1995 when Dr. Doug Owram was appointed Provost and Vice-President (Academic), a position that required him to be comfortable with ambiguity.

"It was in the job description," he said. "And it's brilliant. You are often required to make a decision without black and white borders and often with contradictory data. But that's just part of the job. You get the best information you can and do the best job you can."

For seven years he has done just that, en route to becoming the longest-serving Vice President (Academic) in the U of A's 94-year history. In June he'll relinquish the post in order to return to the classroom.

"I wanted the chance to go back and teach and research before I retire," he said. "I decided I'd like an opportunity to do more writing, and the fear is that if I wait much longer it will be that much tougher to get back to that part of life."

There is another, equally pragmatic reason Owram is stepping down. The possibility existed that he and U of A President Rod Fraser would complete their terms of office simultaneously. Owram felt it was best that, "for the sake of continuity," the president and provost's terms overlap.

While he missed teaching, Owram knew the experience as provost and vice-president (academic) would be challenging and rewarding. "The reason an academic becomes an academic is they love their discipline. But after teaching for some 20 years the chance to do something different, to see the whole university and to have a chance to make changes and do things you want to do is a tremendous opportunity."

When it comes to discussing what Owram views as the most significant things that occurred during his post, he feels the special moments lie in the seemingly routine, such as the annual

Celebration of Teaching and Learning and awarding of the University Cup.

"The other thing I guess I feel proud of is that, in a time of very competitive hiring we made every effort we could to keep and attract the best faculty we could," he said. "We didn't always win, but we tried to create as flexible a system as we could to bring people in."

And, he says, he's glad he didn't make a mess of things.

"The U of A has a special culture, a sense not of adversarial relationships but of being part of the same activity . . . maybe at best the vice-president academic's role is not to mess it up. I haven't messed it up."

And ironically, his biggest regret may simply be leaving his position. "I will miss being involved in both the excitement and challenge of the whole university-wide challenge and trying to push it along. I will feel

outside the information loop pretty quickly."

His place in that loop has been valued. "There is no question that we worked very well together," said President Dr. Rod Fraser. "I will sorely miss his ability to take the ball and run with it, and his extremely wise counsel."

Fraser says Owram helped shape the university positively. "Clearly Doug is a critical member of our senior executive team and he has to take his more than fair share of the credit for this tremendous momentum that now characterizes the University of Alberta," Fraser added.

Owram looks forward to returning to scholarly efforts amidst that success. Research, he says, requires a level of concentration that is different than the demands he has become accustomed to. And with ideas for "two or three books" to keep him busy, Owram will no doubt quickly find his time occupied. ■

U of A earns eight new Canada Research Chairs

University now boasts 53 CRCs

By Tom Elsworth

November 12, 2002 – The federal government has awarded Canada Research Chairs to eight University of Alberta professors, boosting research in areas ranging from neurological disorders to nanobiological technology.

The U of A received eight of the 10 chairs awarded in Alberta, with \$7.2 million designated for three Tier-1 chairs at the U of A (\$1.4 million over seven years), plus five Tier-2 Chairs (\$500,000 over five years).

THE TIER-1 RECIPIENTS ARE:

- Dr. Glen Baker, Canada Research Chair in Neurochemistry and Drug

Development

- Dr. Michael Brett, Canada Research Chair in Nanoengineered Films
- Dr. Douglas Schmitt, Canada Research Chair in Rock Physics and Time-Lapse Geophysics

THE TIER-2 CHAIRS ARE:

- Dr. Sandra Davidge, Canada Research Chair in Women's Cardiovascular Health
- Dr. Mark Glover, Canada Research Chair in Structural Molecular Biology
- Dr. Donald Ipperciel, Canada Research Chair in Political Philosophy and Canadian Studies
- Dr. Jie Xiong, Canada Research Chair in

Stochastic Processes and Filtering

- Dr. Sally Leys, Canada Research Chair in Evolutionary Developmental Biology

The "Big Bonus" of the CRC for Dr. Glen Baker relates directly to the CFI funding he will receive. This money gives him access to a mass spectrometer that will enable him to investigate discrete regions of the brain to measure levels of various neurochemicals and the neuroprotective drugs he is studying.

According to Baker, the upshot of the research is on the new drugs he is investigating with colleagues in psychiatry, neurology and pharmacy and pharmaceu-

tical sciences is that "it could increase survival of nerve cells." This may lead to preventative medicine that reduces the number and severity of psychiatric and neurological disorders. In particular, it may help restore neurological function in stroke sufferers.

The eight new chairs bring the total number of CRCs at the U of A to 53. In total, the government of Canada announced today \$130.1 million for 123 new chairs, with \$116.4 million coming from the Canada Research Chair Program and an additional \$13.7 million provided by the Canada Foundation for Innovation. ■

Studying the enemy

Research award recipient probes causes of high blood pressure in women

By Richard Cairney

When Dr. Sandra Davidge starts teaching a fourth-year physiology course, she makes sure the students know why the subject is so important.

She first asks her students what the number one cause of death among Canadian males is—they correctly identify cardiovascular disease. But invariably they are unaware that it also claims the lives of more women than any other condition.

"I try to get the point across that it's the number one cause of death among women as well as men," she said. "It puts into perspective why they are sitting there in the class. I'm passionate about the subject area and I think maybe one of them is interested in going into research. I like keeping research open as an option to them."

She also participates in the HYRS program, an Alberta Heritage Foundation for Medical Research program that brings Grade 11 students into research labs over a summer.

"It shows that in Alberta we are doing some things right," she said. "We are catching these students in high school before they have made any serious career decisions."

Davidge is as accomplished in her own research as she is passionate about teaching. This week she's celebrating two landmark achievements: her appointment as Canada Research Chair in Women's Cardiovascular Health and her University of Alberta Martha Piper Cook Research Prize.

Davidge's research focuses on the regulation of vascular function, investigating the causes of high blood pressure during pregnancy (pre-eclampsia) and researching the

mechanism behind the cause of high blood pressure among women as they age.

Her pre-eclampsia research has examined the role of nitric oxide and has

helped shape our understanding of the influence NO has on blood pressure. Prior to her research, it was believed NO, which helps lower blood pressure, was reduced in women with high blood pressure during pregnancy and that, as a result, NO donors could provide valuable treatment.

But Davidge's work showed excess NO could produce increased amounts of a harmful free radical and that treatments of the condition requires more thorough study.

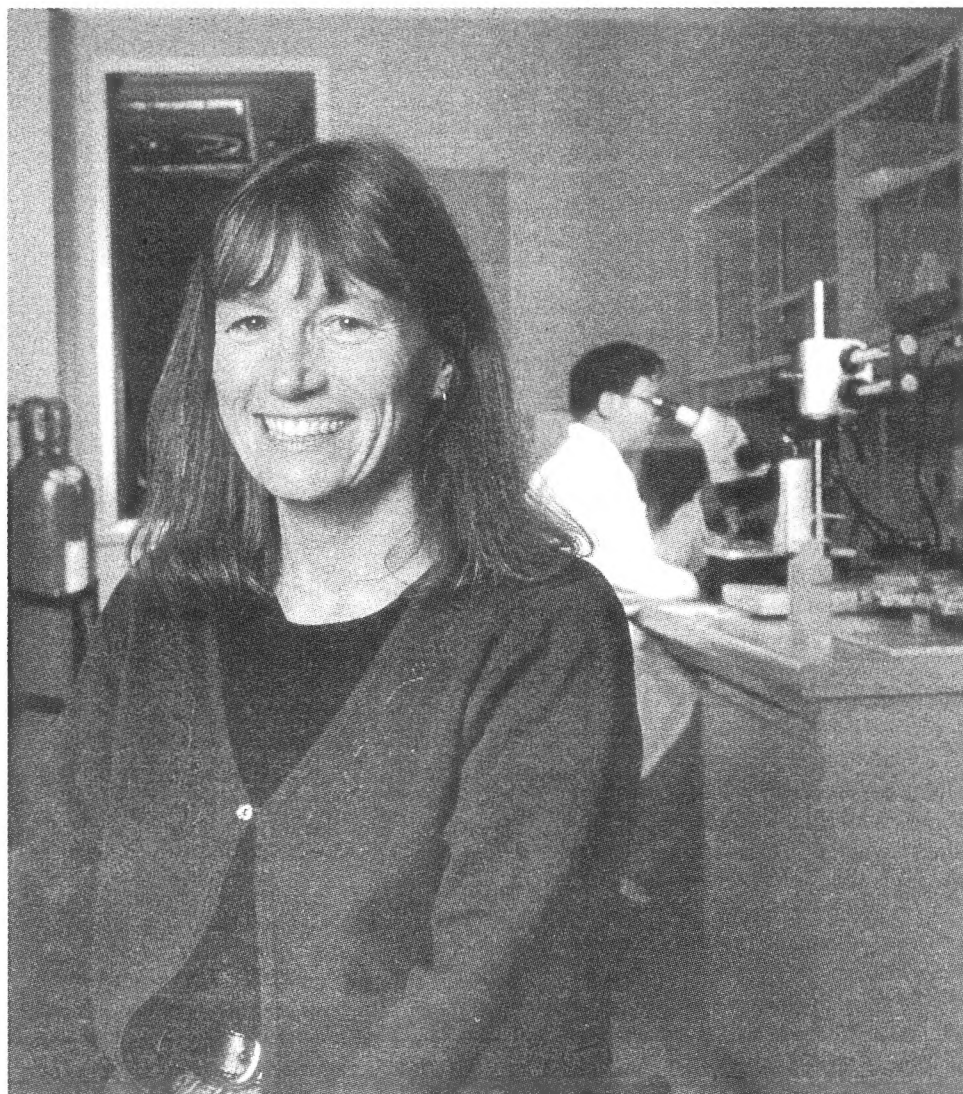
She has also found evidence that estrogen helps inhibit production of an enzyme implicated in causing high blood pressure among post-menopausal women.

"Estrogen is controversial, and understanding how it works may help in coming up with other therapeutic agents, because some people won't take it (estrogen) because of cancer risks," she said.

Davidge's research has made an impact internationally. Dr. Ronald Magness, the director of perinatal research at the University of Wisconsin-Madison Medical School, said Davidge's research is "truly novel" and is making a direct impact on current research. "It will alter the direction of several of my studies," he said.

Magness also knows Davidge is respected as a teacher. "Her enthusiasm is contagious. Because of her teaching skills, several undergraduate students have chosen careers in science . . . I hope to recruit

Dr. Sandra Davidge has made monumental discoveries about what causes high blood pressure in women. Working with a cross appointment in obstetrics and gynecology and physiology, she is a recipient of this year's Martha Cook Piper Research Prize.



Dr. Sandy Davidge has earned a reputation for sound research that's having an impact around the world.

some of her graduate students to my laboratory in the future. I certainly will recommend my graduate students consider her laboratory for post-doc positions."

"I'm thrilled that people recognize the research," she said. "To me, this is a very prestigious prize, because it comes not only from your colleagues but from your university itself."

Her high level of work will continue. These days, Davidge is hoping to take her research in a new direction that addresses the foundation of cardiovascular health—probing the fetal origins of adult diseases.

"It's a new angle," she said. "We want to know what happens in the fetus to make one person more susceptible to pre-eclampsia than another." ■

Research on rewards rewarded

Judy Cameron kicks up a storm, earns prestigious award

By Richard Cairney



Dr. Judy Cameron has been awarded the Martha Cook Piper Research Prize.

How should teachers reward students for learning their lessons? How should parents motivate their children to become more responsible? How can employers best compensate employees in a way that leads to increased productivity?

When Dr. Judy Cameron first examined the idea of using rewards as a way of motivating students, she rattled conventional thinking and sparked a debate that rages to this day. Cameron insists rewards work as motivational tools and classroom teaching is flawed if it doesn't take advantage of them. Her controversial research could affect the way children are taught in the classroom and the way companies deal with their own employees.

For her achievements in this area of research and her successes in other endeavours, Cameron, who teaches educational psychology at the University of Alberta, has been awarded the Martha Cook Piper Research Prize.

"The importance of Dr. Cameron's work cannot be overemphasized. She has addressed a topic with the potential to impact the lives of hundreds of thousands of children," said Dr. Julie Vargas, a professor of educational psychology at West

Virginia College who also serves as president of the B.F. Skinner Foundation and as editor of the journal, *The Behavior Analyst*.

"The importance of Dr. Cameron's work cannot be overemphasized. She has addressed a topic with the potential to impact the lives of hundreds of thousands of children."

— Dr. Julie Vargas

"But the research also has multi-disciplinary applications," said Dr. Larry Beauchamp, dean of the Faculty of Education. "It has been picked up in other fields, most notably business, where the same general principles have relevance to the use of incentives in encouraging self-directed productivity in the workplace and other settings. Dr. Cameron's book, *Rewards and Intrinsic Motivation: Resolving the Controversy* is targeted not only to education and psychology but to business as well."

Cameron began researching the use of rewards as a motivator because she suspected the prevailing attitude, that rewards were wrong, was flawed.

"At the time there was a strong view that kids should just learn, that they should be intrinsically motivated to learn and that they would discover their own creative inner potential," she said. The idea was that teachers shouldn't intervene . . . that if you used incentives or rewards, that would be a type of control, and we shouldn't do that.

But the idea of rewards as a negative

thing "seemed kind of counter intuitive to me," she said. So she and U of A sociology professor Dr. David Pierce took a critical look at the research, reviewing some 150 studies on motivation and rewards. "We concluded this was a huge over-generalization, that the data didn't support it and that in fact rewards can, when appropriately used, increase performance and motivation."

But Cameron and Pierce's research wasn't universally accepted. Researchers holding opposing views launched "very personal attacks on our stuff," said Cameron. The case against rewards in education is still being made, even in the newspaper of the Canadian Association of University Teachers, the *CAUT Bulletin*.

"Several articles have attacked her early analyses," said Vargas. "Rather than attacking back with rhetoric, Dr. Cameron and her colleagues have answered their critics with increasingly sophisticated statistical analyses of both the original and additional studies."

Cameron is passionate about the research and the issue but doesn't allow it to get personal. Beyond all the studies and statistics, the Martha Cook Piper Prize is all the evidence she needs that rewards spark motivation.

"According to our research, it should motivate me," she said of the award. "And, oh yes, it's great—I'm quite happy to get it." ■

Students wobble at Alcohol Awareness event

Fatal Vision goggles help drive message home

By Ryan Smith

In case they needed reminding, University of Alberta students were shown once again just how stupid it is to drink and drive.

Campus Security officials and volunteers with the U of A Health Education program recently answered questions and distributed information as part of the national Alcohol Awareness Week. "Fatal Vision" goggles were also provided by the U of A Students Against Drunk Driving (SADD) group to allow sober students to experience how perceptions change after drinking alcohol. Students wore the goggles and then tried to walk along a straight line.

"You put them on and the line totally moves on you," said Shazma Mithani, a first-year science student at the U of A.

"This is the safe way to learn about the dangers of drinking and driving," she said, explaining why she thinks providing students the chance to wear the "Fatal Vision" goggles is a good idea. "I almost fell into the table, but at least here there were people to catch me and I wasn't putting anyone else in danger."

A self-described social drinker, Mithani said that even before she took the "Fatal Vision" test she made it a "rule" for herself that she'll never drink and drive.

"Whenever I'm driving I don't drink at all, not even one drink, because I think it's that important not to drink and drive."

Steve Shideler, a second-year business student at the U of A, has never had an alcoholic drink, and he plans never to try one, but he tried wearing the goggles because he was "interested to see what it's like on the other side of the coin."

"It's pretty scary," he added. "If that's really the way people see things after they've been drinking, then driving in that condition is insane."

According to Campus Security statistics, 26 people on campus in the past year have been either arrested or suspended



Ryan Smith

Business student Steve Shideler sports the Fatal Vision goggles that simulate impairment. Drinking and driving, he concluded, is "insane."

from driving for 24 hours because they were caught driving while intoxicated. The arrests and suspensions are a result of periodic 'Checkstops' conducted by Campus Security.

Campus Security Sergeant Greg Turner does not believe that alcohol use is more prevalent on campus than it is anywhere else in the city, but he did caution students against excessive drinking. So far this year, Campus Security officers have responded to 272 incidents on campus that involved alcohol or drug use.

"Excessive drinking leads to a severe threat of alcohol poisoning, and students

need to realize that alcohol poisoning is a life and death situation," Turner said.

"Alcohol poisoning is very serious," added Erin Hertz, who's in the after-degree nursing program and is also a health education assistant at the U of A. "Everyone should know that if someone else has passed out from drinking too much and can't be woken up, then an ambulance should be called for immediately."

Campus Security Officer Natalie Neilson added that there have been a number of cases on campus recently in which students have been found alone,

outside, and severely intoxicated. "If students are planning to drink, they should at least make sure that they have one or two sober friends with them in order to make sure they don't get lost or in trouble," she said.

Hertz said the "Fatal Vision" goggles are just one tool the Health Education Program uses to teach students about the effects of alcohol use. "Most students do not have problems with drinking alcohol," she said. "We just want to educate everyone so that they think about their drinking and have the knowledge to make their own choices." ■

"Everyone should know that if someone else has passed out from drinking too much and can't be woken up, then an ambulance should be called for immediately."

— Erin Hertz

International students get crash course in NHL hockey

One night with the Oilers brings students closer to Canadian culture

By Ryan Smith

Shanghai native Jia Li hasn't been in Stown very long, but already he sounds like a true Edmontonian: "The Oilers haven't been doing well so far. They need to score more," he said. "I hope they can turn it around and win tonight."

Li, who is working towards a masters degree in computer science at the University of Alberta, was one of 100 international students taking advantage of an opportunity to attend an Edmonton Oilers' hockey game Nov. 1, and sit in on a pre-game hockey seminar at the International Centre.

Constanze Kehling, a third-year business student from Germany, helped organize the second annual event as a part of the U of A international students' peer leader program. For \$27, the students received a ticket to the game, an Oilers' T-shirt, and some food at the game. "We sold out pretty quickly," Kehling said of the event. "Last year we received 130 tickets from the Oilers, and we sold out, but this year we couldn't

get as many, even though we knew there would be a big demand for them."

Kehling's friend, Brent Loshney, who played junior-league hockey in Ontario, hosted the hockey seminar, which was short on explanation but loaded with gesture. With hockey stick in hand, he demonstrated, with the help of an unsuspecting volunteer, the spectrum of hockey penalties to the attentive, wide-eyed international students. After the seminar, the students went en masse to the LRT station and rode the train to the game. Earlier in the week, a tour of the Oilers' arena, the Skyreach Centre, was organized for the students.

Hiroko Tsukahara, an exchange student from Japan who is studying linguistics at the U of A, came to Canada in late August and saw her first hockey game in September at Clare Drake Arena on campus. "I can't skate myself, and I thought it was amazing to see that the players not only skate so well, but also can do so much more on their blades."

Kavleh Jamshidi, a first-year sociology student from Iran, had never seen a hockey game in person before. "I've seen parts of a game on TV before, but I think it'll be much different and much more exciting to see it live."

Vladimir Iassemovsai, a masters student in the U of A Department of Earth and Atmospheric Sciences, has only been in Edmonton two months, but the 1-1 draw between the Oilers and the Buffalo



U of A International Students attended an Edmonton Oilers hockey game to help become culturally acclimatized.

Sabres was the second Oilers' tilt he'd been to so far.

"I'm from Moscow and am a big hockey fan. Of course we all knew about Wayne Gretzky and the fact that the Edmonton Oilers were a dynasty in the mid-eighties, so I'd say I'm an Oilers fan now," said Iassemovsai, whose favourite player is Russian superstar Sergei Federov, of the Detroit Red Wings.

"I've seen many games in Russia," Iassemovsai said, "but to me the games are better here. The hockey is better and the environment in the arena here is more exciting."

"This is a good opportunity to learn about Canadian culture," Li added. "My friends talk about hockey and the Oilers all the time. Now I can see for myself what they're talking about." ■

Celebrating 35 years of Killam support

In 1967 the University of Alberta received a \$14-million endowment from the estate of Dorothy Johnston Killam, widow of Izaak Walton Killam. Today, the Killam endowment has grown to more than \$98 million, and the University of Alberta and hundreds of Killam "alumni" have benefited significantly from the bequest. On Nov. 28 and 29, the university will celebrate the enormous success of the Killam Trust.



The enduring legacy of a loner and a socialite

Little was known of the man who has meant so much to Canada

By Geoff McMaster

He was, in many respects, a man of mystery. A loner who forged his own path, hated talking to people, even hated having his picture taken. He had a reputation for being brilliant and tough, if a little odd. When he died in 1955 at the age of 70, Izaak Walton Killam was considered the richest man in Canada, having built a financial empire on, among other things, securities, power and pulp and paper. Killam never attended university and by some accounts had never been particularly generous during his lifetime. In fact some said he resented being asked for money. And yet the bulk of his estate, vastly expanded by his wife Dorothy, has had a huge impact on the cultural and intellectual life of Canada.

"They built a substantial empire which tapped and produced great wealth," writes Douglas How in A Very Private Person, a biographical account of the Killams. "They lavished something close to \$125 million upon the land that had chiefly made it possible, and virtually all of it went into that realm of advanced scholarship neither of them had ever known."

Killam was born in Yarmouth, Nova Scotia in 1885 to middle-class parents. People who knew him remembered two things: even as a boy, he was a loner and "had a one-track mind about money."

"He went his own way," writes How, "a withdrawn, quiet, pale, tall and gangling boy who was, several people said, neither popular nor unpopular."

Described as a "hustler" who tried to sell whatever came to hand, Killam hit his stride at the age of 12 when he started selling newspapers on street corners. But he didn't stop there. He got in touch with newspaper publishers in Halifax, Saint John and Boston and arranged to set up franchises, essentially cornering the market. By the time he was 15, he had "both the Herald and the

Chronicle sewed up from Halifax and the Telegraph from Saint John. He also got franchises to handle the Boston and New York papers."

Killam finished school at 16, worked in a bank for a couple of years and then set off for Halifax at 18. There he hooked up with one Max Aitken, a 25-year-old entrepreneur who had recently set up a company called Royal Securities – it would prove the foundation of Killam's enormous success. He took over the company by the age of 30, and from there moved into a range of other investments. His talent lay chiefly in buying companies cheaply and building them up.

One of many such companies was Calgary Power, which Killam took over during the 1920s. But he also owned, for a time, the Acadia Sugar Refining Company, Bolivia Power Company; Puerto Rico Railway, Light and Power; British Columbia Pulp and Paper Company Ltd.; the Mail and Empire Newspaper; Montreal Engineering; Mersey Paper Company and Moirs Ltd., a chocolate company.

When Killam was 37, his life changed profoundly. An extroverted 22-year-old woman from St. Louis, "a small, lively girl with a 'lovely figure' and aptitude for athletics" noticed the shy businessman at a high-society dinner party in Montreal. Dorothy Johnson announced to her friends that she would marry this enigmatic figure. She did, writes How, and "was to have a marked influence on him for the rest of his days."

"Dorothy Killam was, in fact, an exceptional person, destined to be called by a reporter 'a legend in her own right'...In marked ways, she was the antithesis of her introverted, often socially uncomfortable husband...gregarious and full of fun, she loved parties, social life, being with famous and interesting people, especially men."

Killam put considerable stock in Dorothy's judgment

on most things, but especially when it came to people. When he needed an accurate impression of a person's character, he'd ask her to sit next to that guest at a dinner party and report back to him. And while Killam was not generally fond of conversation, he would spend long evenings "thinking out loud" about his affairs, eliciting her opinion. According to How, "he once told someone she had the best business brain of any woman he ever met."

In 1954 Killam retired from his many ventures and a year later died of heart failure. Although undeniably a powerhouse of Canadian finance, the press in Eastern Canada had precious little information about him. Some papers were forced to run a sketchy obituary with an old Toronto Daily Star picture more than 25 years old. The Montreal Gazette concluded his career "might have been much more spectacular and better known had it not been for a characteristic reticence."

But his legacy would speak volumes. The death taxes from Killam's \$83 million estate – amounting to about half – added to those of one Sir James Dunn, allowed the government to create the Canada Council for the Arts. Part of Killam's taxes also provided Canadian universities with some capital expenses over a 10-year period.

Aside from that considerable bequest, it was up to Dorothy to carry the Killam name. Despite her deteriorating arthritis, she lived the high life after her husband died. She became "somewhat of an international celebrity" with homes in New York, Nassau and the French Riviera. She was known for her expensive tastes, with a penchant for jewelry, fine clothing and parties. An

avid baseball fan, she even tried to buy the Brooklyn Dodgers.

But Dorothy was no fool, and her husband had taught her well how to manage money. "He started by teaching me the ABCs of finance," she once said, "and by the time he died I had the XYZs." From the sale of his empire, and through her own shrewd investments, she more than doubled her inheritance by the time she died 10 years later, from \$40 million to some \$93 million.

She and her husband had talked at length about where the Killam legacy should go, and Dorothy set out to establish a scholarship program that would rival the famous one established by South Africa's Cecil Rhodes at Oxford University. It was Dorothy's intention, she said, "to help in the building of Canada's future by encouraging advanced study."

And so she left \$30 million to Dalhousie University, \$14 million to the University of British Columbia and \$16 million to the University of Alberta (a portion of which it donated to the University of Calgary when it sprouted from a U of A campus). She also helped establish the Izaak Walton Killam Hospital for Children in Halifax, gave \$15 million to the Canada Council and \$4 million to the Montreal Neurological Institute.

The money came at a time when it was urgently needed across the country. "In these institutions and others," writes How, "the money has helped keep at home young Canadians who might have left to study elsewhere. It has also attracted to Canada both outstanding teachers and young people who came to learn."

At the University of Alberta alone, since 1967, the Killam fund has supported 388 doctoral scholarships, 114 honorary doctoral scholarships, 175 postdoctoral fellowships and 16 honorary postdoctoral fellowships.

The influence of these exceptional scholars here and around the world has been, as the U of A's President Rod Fraser might say, indisputable. And the Killam name, as so often happens with visionaries, is now recognized and valued more than it ever was during the lifetime of this great Canadian patron. ■

Born for botony

Killam Annual Professor studies how plants respond to environmental stress

By Geoff McMaster

Dr. Janusz Zwiazek was only six years old when he turned to his father one day and said he wanted to be a plant biologist. Enchanted by the forested area around his suburban home in Warsaw, Poland, he couldn't imagine a better life than unraveling the mysteries of plant life.

Like most kids, his aspirations ran the gamut in ensuing years. But by the time he reached adulthood his first love could no longer be denied: he ended up earning a master of science in botany from the University of Silesia in Poland in 1980. That was followed by a doctorate in botany from the University of Manitoba in 1987 and a prestigious Doctor of Science from the University of Warsaw, Poland.

This Killam Annual Professor award winner is now renowned for research that sheds light on how plants respond to environmental stress "under less than perfect conditions" – everything from temperature fluctuation and drought to salt and pollution. For the past three years he's been helping Chinese farmers reverse a pattern of damaging erosion in the Yangtze River basin. He's learned, as an advisor with the U of A-based Ecological Conservancy Outreach project, that environmental stress can be more complicated than even he had anticipated.

"When I first went there, I was fairly critical. I thought, 'to deal with this problem just let the land develop its natural vegetation for this area—that's the best way to protect the soil,'" he says. "In some sections of the land that they didn't need, that's just

what happened, and it took just one year for the natural vegetation to grow back. I wish it could happen everywhere, but they need the land, they need the income.

Zwiazek said witnessing the daily struggle of farmers to feed their families has caused his scientific ideals to undergo a reality check of sorts. "I understood quite quickly that we have to adjust our Western standards to the conditions people face in China."

His recent foray into China is perhaps the most exotic of Zwiazek's interests, but in one way or another all of his research, at home and abroad, is aimed at improving " revegetation and reforestation efforts in areas disturbed by human activities." His work has been supported by the federal and provincial governments, but also by seedling nurseries and the forest and mining industries.

According to his peers, Zwiazek's approach is somewhat unique, focusing on whole-plant systems rather than on one small piece of the puzzle.

The applications have been far-reaching—helping to establish hydrogen fluoride emission standards in Ontario, improving planting methods for forest and urban trees and developing revegetation strategies in areas disturbed by oil sands development.

"His work has indicated potential concerns about and avenues for future research on reclamation approaches that will improve environmental performance, as the oil sands area is developed and



Dr. Janusz Zwiazek

eventually reclaimed," notes Dr. Mike MacKinnon, senior research associate with Syncrude. "

Aside from the research, however, Zwiazek also has a reputation as a first-rate teacher with excellent student evaluations and a place on the Faculty of Agriculture, Forestry and Home Economics Teaching Wall of Fame. And he admits he was somewhat surprised to discover a passion for that side of the job.

"I think my attitude on that has

evolved. When I got this job in 1989 I was 100 per cent researcher. All I could think of was working in a lab. I saw teaching as an extra load that I had to take on, but now I really enjoy it."

The other 2002 Killam Annual professors are: Drs. Bill Beard, film and media studies; Stan Boutin, renewable resources; Dean Befus, medicine; Stephen Dew, electrical and computer engineering; Randy Currah, biological sciences; Clayton Deutsch, civil and environmental engineering. ■

Building a civil society

Killam Annual Lecture offers new vision for the human sciences

By Geoff McMaster

In this year's Killam Annual Lecture, a series supported by the Killam Trust, former U of A Vice-President (Research and External Affairs) Dr. Martha Piper underscored the importance of the human sciences in forging a "civil society."



Dr. Martha Piper

Pointing to a recent landmark study from the Brookings Institution which found that businesses in the technology sector thrive in places known for their cultural diversity, open-mindedness and tolerance, she argued that the promotion of human values stimulates a culture of innovation and productivity.

And yet while Canada has enjoyed a reputation around the world for its support of democratic rights, multiculturalism and tolerance – much of which is enshrined in the Charter of Rights and Freedoms – there are still countless examples of social ills and injustice, from land claims disputes to poverty on reserves to homelessness to urban drug and alcohol abuse.

To tackle these problems, Piper says, we need more than common-sense solutions. To build a truly "civil" society, we need informed inquiry and a "deep, extensive knowledge born of research that would enable us to better understand ourselves...and construct the prosperous and humane society we all seem to aspire to."

It is therefore crucial to encourage and sup-

port scholarship that helps Canadians understand their values, the roles they play as citizens and the concept of Canadian identity. And this must be accompanied by research into areas "that bear on legislation, public policy and social programming," said Piper. "Research in the human sciences is as important to our advancement as a civil society as research in biochemistry is to the advancement of our health."

Piper suggests a three-pronged approach to the way the human sciences are supported in Canada. First, she suggests reforming curriculum in our post-secondary institutions to encourage in students "a stronger sense of social purpose" and "an awareness of one's responsibilities as a citizen and a member of the global community." She also advocates the creation of a Prime Minister's Advisory Council on a Civil Society that would work much like the Prime Minister's Advisory Council on Science and Technology. Central to her argument, however, is the reform of the Social Sciences and Humanities Research Council (SSHRC). Here is an excerpt from her lecture:

The need to increase the funding to SSHRC is legitimate. Let me be clear. I applaud and support the government's recent investment in research, whether it be the establishment of the Canada Foundation for Innovation, the Canada Research Chairs, Genome Canada, the restoration of funding to the granting councils, or the funding of the indirect

costs of research.

All of these investments and more are required if we are to achieve the laudable goal of being in the top five innovative countries. What I am advocating this evening is not a pulling back or reallocation of this investment. Rather I am suggesting that an additional investment in the human sciences is required if we are to reap the full benefit of the returns on these other investments.

My model here is health research, where the argument has been advanced that a minimum of one per cent of the investment made in health expenditures should be invested into health research. Correspondingly, I would suggest that one per cent of all public expenditures on "civil society" programs should be invested into research in the human sciences. Consider the amounts invested in social welfare, the corrections system, national defense, foreign affairs, heritage and culture, and Indian and Northern Affairs, to name a few broad areas.

Along with increased funding I would consider restructuring SSHRC to reflect the nature and importance of research concentrating on the formation of a civil society. This restructuring would involve a commitment to network scholars across the country, in academics, colleges, institutes or alliances that focus on some of the most

pressing "civil society" issues...We might construct academies around themes such as Aboriginal Affairs; Democracy and Human Rights; Poverty, Unemployment and Social Welfare; Language, Literature and the Performing Arts; Education and Training; and Immigration and Multi-Culturalism, to offer but a few examples...

Let me also suggest that we consider changing the name of SSHRC to focus on the outcomes of the research rather than the academic disciplines that inform the research. Attention should be directed towards the goals and outcomes, rather than the process. Hence, I would advocate a name that emphasizes what we are building – a civil society. Whether it be the Civil Society Research Council, the Canadian Academies for Civil Society Research or something else, I think it is important that the public understand what the research is focused on doing, rather than identifying the disciplines involved in conducting research.

See the entire text of Piper's 2002 Killam Annual Lecture at <http://www.dal.ca/~ktrust/lectures/lec02/>. ■

FOR MORE ON THE KILLAM 35th ANNIVERSARY CELEBRATIONS NOV. 28, 29, VISIT www.expressnews.ualberta.ca/ualberta/c2.cfm?c=19



talks & events

Submit talks and events to Cora Doucette by 9 a.m. one week prior to publication. **Folio Talks and Events listings will no longer accept submissions via fax, mail, e-mail or phone. Please enter events you'd like to appear in Folio and on ExpressNews at: <http://www.expressnews.ualberta.ca/ualberta/L2.cfm?c=10>**

UNTIL APR 2003

Campus Observatory The Campus Observatory is open to the general public every Thursday night beginning at 8 p.m. during the academic year, with the exception of holiday periods. The Observatory is operated by faculty and student volunteers belonging to SPACE (Students for the Promotion of Astronomy, Culture and Education). For further information, please contact Dr. S. Morsink at 492-3987.

UNTIL NOV 17 2002

Kalamkari India by Design This exhibition celebrates the rich dyed and printed textile traditions of India. These breathtakingly complex silk designs and costumes are drawn from both the University Textiles Study collection and from a grouping of brilliant student works from the Department of Human Ecology at the University of Alberta. Location: McMullen Gallery UofA Hospital. Gallery hours are Monday to Friday, 10:00 a.m. to 8:00 p.m. Saturday and Sunday, 1:00 p.m. to 8:00 p.m. Weekend and evening hours are dependent on volunteer availability.

UNTIL DEC 31 2002

Exhibit: Dressed for Rites of Passage Universities are places where both individuals and institutions mark many changes and accomplishments, often with the use of clothing. Whether it is the academic robe worn by Pierre Trudeau when receiving an honorary degree, an evening gown worn to a 1930's graduation dance or the Panda tattoos of a victorious women's rugby team, we find visible ways of marking and celebrating our lives. Mon - Fri: 7 a.m. - 9 p.m. Saturdays: 8 a.m. - 4 p.m. Sundays & holidays: 12 p.m. - 4 p.m. Free. Location: Lobby Gallery, Human Ecology Building.

NOV 28 - DEC 07 2002

The Ends of the Earth Studio Theatre presents "The Ends of the Earth." Walker and Frank are paranoid. As they attempt to flee each other they end up following each other instead, with hilarious results! Directed by Beau Coleman and featuring members of the BFA Acting class and BFA (Theatre Production and Stage Management) classes. All performances begin at 8 p.m. There is one Matinee on Thursday, December 5, at 12:30 p.m. and a \$5 Preview on Wednesday, November 27. There is no performance on Sunday, December 1. Please call the Box Office at 492-2495 for more information. Location: Timms Centre for the Arts. Running November 28 to December 7.

NOV 15 2002

Centre for Health Promotion Studies

Research Seminar. Nancy Snowball, National Manager, Strengthening the Forces, presents "Strengthening the Forces." She will speak about the highlights of this Health Promotion Program of the Canadian Forces. Everyone welcome. 12:00 to 1:00 p.m. Location: University Extension Centre Room 2-36. Web site: www.chps.ualberta.ca

NOV 15 2002

Department of Music Partners in Music Research featuring live music and dance from Japan, Africa, the Andes, India, Latin America, and Canada with special guest Tom Phillips from Calgary. Admission is free. For more information, contact The Centre for Ethnomusicology, Fine Arts Building 2-11, Telephone: 492-8211. 2:30 p.m.. Web site: www.arts.ualberta.ca/ETHNOMUSICOLOGY/wms2002.htm

NOV 15 2002

Department of Biological Sciences Doug Morris, Lakehead University, speaks on "Tallying the votes: natural selection as a leading indicator of environmental change." Location: M-149, Biological Sciences Building at 12:00 noon. Web site: <http://www.biology.ualberta.ca/courses/biol631/>

NOV 15 2002

Department of Biological Sciences Department of Biological Sciences Molecular Biology and Genetics Research Group seminar series. Michel Roberge, Department of Biochemistry, University of British Columbia, presents "Cell-based screens and identification of invasion inhibitors and G2 checkpoint inhibitors" at 3:30 p.m. in Room M-149 of the Biological Sciences Building.

NOV 15 2002

Department of Philosophy Professor Trudy Govier presents "Prosecuting Crimes Against Humanity: Rule of Law and the Selectivity Arguments." Time: 3:00 p.m. Location: Humanities Centre 4-29.

NOV 15 2002

Department of Physiology Dr. Virginia L. Brookes, Dept. Physiology & Pharmacology, Oregon Health Sciences University, will speak on "Salt, osmolality and the sympathetic nervous system." Time: 10:00 a.m. Location: Classroom D, 2F1.04 Walter Mackenzie Centre.

NOV 15 2002

John Dossetor Health Ethics Centre Health Ethics Seminar Series. Genetics & Health in the Developing World: Is WHO too optimistic? Laura Shanner, PhD, John Dossetor Health Ethics Centre and Dept of Public Health Sciences, Faculty of Medicine and Dentistry. From 12:00 to 1:00 p.m. Location: Room 207, Heritage Medical Research Centre.

NOV 15 2002

Physics Department Dr. Tim Gosnell, Condensed Matter and Thermal Physics Group, Los Alamos National Laboratory, presents "Laser Cooling in the Solid State" 3:15 p.m. V-129 Physics Building.

NOV 15 2002

Department of Music Flute Masterclass with Visiting Artist Susan Hoepfner, Canadian flute virtuoso. Free admission. 5:00 p.m.

NOV 15 2002

Understanding the Kyoto Accord Event sponsored by Centre for Executive and Management Development. Understanding the Kyoto Accord. CEMD is offering a half-day information session and debate on the main issues surrounding the Kyoto Accord and its effect on Alberta. Speakers include: Rick Hyndman, Joseph Doucet, Mark Jaccard and John Drexhage. This session is open to the general public. It is from 8:00 a.m. to 11:30 a.m. at the Delta Edmonton Centre Suite and will include a continental breakfast. Tickets are \$50 (includes GST). Web site: www.cemd.ca

NOV 16 2002

Philosophers' Cafe Philosophers' Cafe, an opportunity for the public to engage in informal, lively conversation about a philosophical or topical issue. From 2:00 to 3:30 p.m. Topic: Can You Trust an Atheist? Guest scholar: Martin Tweedale, Professor of

Philosophy. Location: Nina's Restaurant, 10139 - 124 Street.

NOV 16 2002

Career and Placement Services (CaPS) Workshop for Science Students: Career Selection. Time: 9 a.m. - 12 p.m. Learn how to create a self-portrait and how other graduates with Science backgrounds are making their degrees work for them! Pre-register today at CaPS, 2-100 SUB. Location: CaPS Resource Centre, 2-100 SUB. Web site: www.ualberta.ca/caps

NOV 16 2002

Department of Music The Center for Ethnomusicology presents Cultural Bridges in Music and Dance featuring The Naad-Avaaz Ensemble. Amelia Maciszewski - sitar, voice, Amir Amiri - Persian santoor, Ojas Joshi - tabla, percussion, Cassius Khan - tabla, voice, Kirk Bishop - guitar with Special Guests Bob Tildesley - trumpet, Vinod Bhardwaj - bansuri, voice, Karishma, Amika, Meera - Kathak dance, Nikhil Rao - tabla, Seema Ganatra - Sitar and Members of the U of A Indian Music Ensemble. Admission: \$12/adult, \$10/Ragamala Member/Senior, \$8/Student, available at the Department of Music (3-82 Fine Arts Building), Avenue Guitars, Blackbyrd Myozik, The Art Zone. For information, please call 492-8211, 492-0601, 484-8470. 8:00 p.m. Web site: www.arts.ualberta.ca/ETHNOMUSICOLOGY/wms2002.htm

NOV 17 2002

Department of Music The University Symphony Orchestra, Tanya Prochazka, Conductor. Program will feature R Strauss Don Juan, Walton Viola Concerto with Aaron Au, viola and Schumann Symphony No. 3. 8:00 p.m.

NOV 18 2002

Department of Anthropology Visiting Speakers Series. Simon Mays, English Heritage, will speak on "Life and death in a Medieval Village: Analysis of the human remains from Wharram Percy, England." Location: Tory 14-28 at 3:00 p.m.

NOV 18 2002

Department of Cell Biology Visiting Lecturer Dr. Zhigang He, Assistant Professor, Department of Neurology, Harvard Medical School. "Molecular Mechanisms of Axon Regeneration." From 9:30 - 10:30 a.m. in 5-10 Medical Sciences Building. Web site: www.ualberta.ca/cellbiology

NOV 18 2002

Department of Chemistry Visiting Speaker Lecture Professor Suzanne Walker, Department of Chemistry, Princeton University, Princeton, New Jersey, USA, presents "Cell Wall Biosynthesis and Its Inhibition: Chemical Approaches to Understanding Anti-infective Targets." 11 a.m. Location: V-107 Physics Wing.

NOV 18 2002

Department of Political Science Professor Walden Bello, University of the Philippines, presents lecture "The Multiple Crises of Capitalism." 12:00 noon. Location: Room 10-4 Tory Building.

NOV 18 2002

Nordic Landscapes and Culture Jakob Stougaard-Nielsen, Visiting Scholar from University of Washington, Seattle, will present a lecture on Nordic Landscapes and Culture. 7:30 p.m. in the Senate Chamber, 326 Arts Building.

NOV 18 - 21 2002

Toiletry Drive Drop off a toiletry donation at our tables in SUB & TORY (open from 10 a.m. to 3 p.m.) and enter to win fabulous prizes or bring a toiletry donation to Stylistics in HUB and receive \$2.00 off your haircut. Location: Tables in SUB & Tory. Web site: www.su.ualberta.ca/campusfoodbank

NOV 19 2002

Public Forum Public Forum - Dean of Faculty of Graduate Studies & Research. As part of the Dean's Review Process, Dr. Mark Dale will discuss his vision of the Faculty for the next five years. 3:00 p.m. Location: E-121 Van Vliet Centre.

NOV 19 2002

Celebrating Family Advantage in Business Presentation by Lloyd Steier, Academic Director for Centre for Entrepreneurship & Family Enterprise, will be followed by an informal reception - of particular interest to those in family businesses. Presentation starts at 5 p.m. Reception at 6:15 p.m. Event is free but registration is requested. Please RSVP to 492-5876 by Nov. 14. Location: Stollery Centre, 5th Floor Business Building. Website: www.bus.ualberta.ca/cefe

NOV 19 2002

Dept of Dentistry Brown Bag Presentation at noon by Dr Winfried Harzer, Vice Dean and Dean for Student Affairs from Medizinische Fakultät Carl Gustav Carus, Technische Universität Dresden, Germany. "Change of mRNA and protein isoforms in myosin heavy chain of masseter muscle after orthognatic surgery." Location: Rm 4069 Dentistry Pharmacy Centre. Web site: www.dent.ualberta.ca

NOV 19 2002

University Teaching Services Using WebCT for Student Grades. The WebCT Gradebook is an effective tool for tracking students' progress and providing students with immediate access to grade information. In this hands-on session, you will learn to use the WebCT Gradebook to manage grade information in your course. Presenter: Susan Stein, Computing and Network Services. Time: From 4:30 to 6:00 p.m. Location: Technology Training Centre. Web site: www.ualberta.ca/~uts

NOV 19 - 21 2002

Career and Placement Services (CaPS) FREE Brown Bag Lunch Seminars. Cover Letters; Applying for Grad School and Alternative Careers for Students in Education all week at CaPS. Stop by over the noon hour for free career advice. Find out more at CaPS, 2-100 SUB or call 492-4291. Location: CaPS Resource Centre, 2-100 SUB. Web site: www.ualberta.ca/caps

NOV 20 2002

Dean of Students Public Forum As part of the dean review process, Dr. Bill Connor will discuss his vision of University Student Services for the next five years at the Public Forum. Noon - 1:00 p.m. in 2-1 Council Chamber, University Hall.

NOV 20 2002

Grad Student Mixer Interested in graduate studies? UA-WISE (U of A Women in Science and Engineering) is holding its annual Grad Student Mixer from 5 to 7 p.m. Meet graduate students in science and engineering, learn from their experiences, and ask questions. Everyone is welcome. Free pizza. Location: Biological Sciences Board room (next to cafeteria on 4th floor).

NOV 20 2002

Silent Auction United Way Silent Auction will be held in HUB Mall from 11:00 a.m. to 1:30 p.m. in Lounge 4. Items up for bid include a Jasper weekend, Edmonton Oiler hockey tickets, shirts, jackets and many more items! Contact: Teresa Cowan - 492-5609 for further information. Location: Lounge 4, HUB Mall.

NOV 20 2002


Department of Biological Sciences Department of Biological Sciences Biology 642 Seminar Series in Physiology, Cell and Developmental Biology. Joan Turner, Cross Cancer, University of Alberta, presents "Hypoxia tolerance in tumor cells." 12:00 noon in G-116, Biological Sciences Building. Web site: <http://www.biology.ualberta.ca/courses/biol642/>

NOV 20 2002

University Teaching Services Hobbema Diary: A White Guy's Experiment in Grounding Curriculum and Pedagogy in an Aboriginal Context. On the assumption that a Euro-Canadian textbook and Eurocentric teaching practices would be a less-than-perfect fit for Aboriginal students, a course in the sociology of social inequality was constructed using the circle, oral communication, personal experience, and comparative analysis (past, present, Aboriginal, European). Some of the advantages and disadvantages of this grounded approach to pedagogy and of Eurocentric pedagogy are highlighted.



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Facilitator: Herb Northcott, Sociology. From noon to 1:00 p.m. Location: CAB 219. Website: www.ualberta.ca/~uts

NOV 20 2002

Department of Biomedical Engineering
BME600 Seminar: Multi-unit Neural Activity for Sensory Feedback Control of a Neuroprosthesis. Presenter: Dr. Doug Weber, Postdoctoral Fellow, Centre for Neuroscience, Department of Physiology, University of Alberta. Time: 5:30 p.m. Location: CEB231. Web site: <http://www.bme.med.ualberta.ca/~courses/jointseminar.html>

NOV 20 2002

Medical Genetics Rounds The Department of Medical Genetics presents Dr. Elizabeth Simpson from UBC to present our Medical Genetics Rounds. The title of her talk is "Fierce Mice, Brain Orphan Nuclear Receptor, and Fugu Genomics." Time: 12:00 - 1:00 p.m. Location: 2-07 Heritage Medical Research Centre.

NOV 20 2002

PHS Colloquium & Grand Rounds Clinical Epidemiology: Dr Jeff Johnson, Canada Research Chair in Diabetes Health Outcomes and Associate Professor: "Pharmacoepidemiologic Studies in Diabetes Management." Location: Room 2-117, Clinical Sciences Building. 12 Noon - 12:50 p.m.

NOV 20 2002

Department of Music The University of Alberta Symphonic Wind Ensemble, Fordyce Pier, Director. Program will feature Hindemith Symphony in B Flat, McTee California Counterpoint, Youtz Scherzo for a Bitter Moon, Persichetti O, Cool is the Valley de Meij Gandalf and Hennagin Jubilee. 8:00 p.m.

NOV 21 2002

Department of Music Visiting Artists Recital, Ensemble Contemporain de Montréal, Generation 2002. 8:00 p.m.

NOV 21 2002

Department of History and Classics
Seminar by Professor Jeremy Mouat of Athabasca University, who will present: Judging Truth: Bryce v. Rusden and The History of New Zealand. 3:30 p.m. in Tory 2-58.

NOV 21 2002

Modern Buddhism Public Lecture. Lama Ole Nydhal of the Karma Kagyu Lineage of Tibetan Buddhism will give a lecture on Modern Buddhism. Question and answer period and meditation will follow. \$8 at the door \$5 student/senior/unemployed. For further information call 455-5488. Location: Tory Lecture Hall (Tory Turtle). 7:30 p.m. Web site: www.diamondway.org/edmonton

NOV 21 2002

Watersheds, Wetlands and Oceans Mr. Stan Klassen, Alberta Irrigation Projects Association, "Irrigation and Water Management on the Alberta Prairie." 129 Education Building 4:30 to 5:30 p.m. Website: www.ualberta.ca/ERSC/es.htm

NOV 21 2002

Academic Technologies for Learning
"Working the Web into Your Course." Have you seen WebCT or other online courses but don't know how to enhance your lectures with Web-based materials and activities? You will leave this session with an understanding of some ways to work the Web into your course using accessible technologies such as WebCT, email, and Web Board. From 3:00 to 4:00 p.m. Location: Telus 214/216.

NOV 21 2002

University Teaching Services Beating the Mid-Term Blues. Mid-term course evaluations build a rapport with students and often give much more informative and satisfying feedback than end-of-term ratings. In this session, several sample evaluation forms will be provided and the logistics of running the evaluation will be discussed. Mid-term course evaluations are a specific example of Classroom Assessment Techniques (CATs), a powerful way to get a window in on student learning, particularly in large classes. Participants will have the opportunity to develop other CATs for a course of interest. Presenter: Suzanne Kresta, Chemical and Materials Engineering. Time: 3:00 - 4:30 p.m. Location: CAB 281. Website: www.ualberta.ca/~uts

NOV 22 2002

Career and Placement Services (CaPS)
Workshop: Marketing for the Self-Employed. Learn how to market your business during this workshop for those of you who want to be your own boss. Find out more at CaPS, 2-100 SUB, or call 492-4291. Location: CaPS Resource Centre, 2-100 SUB. Web site: www.ualberta.ca/caps

NOV 22 2002

University Teaching Services Starting Online Courses Effectively: What Learners Want. This session, based on a study conducted among online learners, outlines what learners indicate they are looking for as their online course begins. Presenter: Dianne Conrad, Extension. Time: From 10:00-11:30 a.m. Location: CAB 219.

NOV 22 2002

Department of Music Faculty & Friends, Primavera Trio, John Mahon, clarinet, Hiromi Takahashi, oboe, Diane Persson, bassoon, Jongen Trio, Pierne Bucolique Variee, Auric Trio, Walthew Triolet in E Flat, Sauget Trio, Tomasi Concert champetre. 8:00 p.m.

NOV 22 2002

CRL Research Seminar The Centre for Research on Literacy invites you to a seminar discussion with Dr. Linda Laidlaw, Department of Elementary Education. 3 p.m. to 4 p.m. Her seminar is entitled, "Translated by Text: A Complex Perspective on Writing Instruction." Location: 651a Education South.

NOV 22 2002

Department of Biological Sciences
Department of Biological Sciences Harriet Harris, University of Wales, speaks on "Wolbachia induced cytoplasmic incompatibility in Drosophila simulans." 3:30 p.m. Location: M-149 Biological Sciences Building. Host: John Bell. Website: <http://www.biology.ualberta.ca/courses/genet605/>

NOV 22 2002

Department of Philosophy Cyrus Panjvani, Department of Philosophy, University of Alberta, presents "Carnap, Convention and Consistency." Time: 3 p.m. Humanities Centre 4-29.

NOV 22 2002

Department of Physiology Dr. Rui Wang, University of Saskatchewan, presents: "Gasotransmitters and ion channel regulation." 3:00 p.m. 207 Heritage Medical Research Centre.

NOV 22 2002

Department of Public Health Sciences
Environmental Health Sciences seminar series. Dr. Mike Belosevic, Department of Biological Sciences, will present: "Detection and inactivation of protozoan parasites in drinking water." 2:00 p.m. Location: 10-120 Clinical Sciences Building.

NOV 22 - 23 2002

International Centre Pre-Departure Orientation. U of A students participating on a study abroad exchange program in 2003 are invited to come to the Pre-Departure Orientation. Topics discussed include health and safety advice, travel tips, finances, academic questions, and dealing with culture shock. RSVP to Judith Ellis, judith.ellis@ualberta.ca Location: International Centre.

NOV 23 2002

Department of Music The University of Alberta Madrigal Singers, Leonard Ratzlaff Conductor, McDougall United Church. 8:00 p.m.

NOV 23 2002

Department of Music Doctor of Music Recital, Riana Vermaak, piano. Program will include works by Brahms, Debussy and Mozart. Free admission. 8:00 p.m.

NOV 23 2002

Philosophers' Cafe Philosophers' Cafe: an opportunity for the public to engage in informal, lively conversation about a philosophical or topical issue. From 2:00 to 3:30 p.m. Topic: "The Significance of Treaty 8 and Aboriginal Law." Guest Scholar: Earle Waugh, Professor of Religious Studies. Moderator: Wes Cooper, Professor of Philosophy. Location: Nina's Restaurant, 10139 - 124 Street.


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Announcement

Faculty of Science Research Award

We are seeking nominations for the Faculty's most promising young scientists for this annual award, which recognizes outstanding research achievement. Nominees must have obtained their doctorates in 1991 or later.

Deadline:
15 January 2003

For details of eligibility and conditions, please contact:

Dr. Bill Samuel
Associate Dean (Research)
E-mail: bill.samuel@ualberta.ca
(780) 492-3169

Faculty of Science Award for Excellent Teaching

We are seeking nominations from students and departments in the Faculty of Science for this annual award for individuals with outstanding qualities in undergraduate teaching.

Deadline:
25 January 2003

For details of eligibility and conditions, please contact:

Dr. W.J. Page
Associate Dean
E-mail: bill.page@ualberta.ca
(780) 492-9452

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at 492-2997, or by mail to Folio, Office of
Public Affairs, 6th Floor General Services
Building, Edmonton, Alberta T6G 2H1.
Letters may be edited for grammar, style,
accuracy and length.

NOV 23 2002

Career and Placement Services (CaPS)
Workshops for Ag/For/Home Ec Students. Resume
Writing & Interview Skills will both run, at different
times. Pre-register at CaPS, 2-100 SUB or call 491-
4291. Location: CaPS Classroom; 4-02 SUB. Web site:
www.ualberta.ca/caps

NOV 23 - 24 2002

Alumni House Christmas Come to Alumni
House Christmas to learn fabulous new ideas for
Christmas decorating and entertaining from some of
Edmonton's premiere caterers, decorators and
crafters. Experience wonderful food, a renowned
guest speaker, exceptional decorating ideas and an
overall great day to get in the mood for Christmas.
Donations of new items for the Christmas Wish List
for WIN House are encouraged. Call 492-2439 for
more information or to register. Location: Alumni
House, 11515 Saskatchewan Drive. Web site:
www.alumnihouse.ualberta.ca

NOV 23 - 24 2002

Crafters' Christmas Sale Fine handmade floral
and botanical products will be for sale. Gifts for
everyone on your Christmas list! The Shop In The
Garden will also be open to the public. Free admission
to attend the Crafters' Sale. General admission rates
apply for visitation to the Garden. Call Visitor Services,
Devonian Botanic Garden, at (780) 987-3054 for further
information. From 10:00 a.m. to 4:00 p.m.

NOV 24 2002

Department of Music The University of
Alberta Academy Strings, Tanya Prochazka, Conductor.
Program will feature Respighi Ancient Airs and
Dances - Suite III, Elgar Serenade for Strings
and Bartók Divertimento for Strings. 8:00 p.m.

NOV 25 2002

Department of Anthropology Lecture on
the Anthropology of Food by Eugene Anderson,
University of California, Riverside. Location: Tory 14-28
at 12:15 p.m.

NOV 25 2002

GFC Meeting General Faculties Council. New
Business Agenda Items: Vice-President (Research)
Presentation: Priorities and Initiatives; Reaffirmation
of the Budget Process Principles; Recommendation of
the GFC Academic Planning Committee; Review of
the Universities Act: University of Alberta's Preliminary
Response. Location: Council Chamber, University Hall.
2:00 p.m.

NOV 25 2002

Department of Music Noon-Hour Organ
Recital. The recital presents a variety of organ repertoire
played by students, faculty and guests of the
University of Alberta. Free admission. 12:00 p.m.

NOV 25 2002

Department of Biological Sciences Genaro
Hernandez-Castillo, Department of Biological
Sciences, University of Alberta, will present: Diversity
of early land plants. 12:00 noon in Room M-145 of the
Biological Sciences Building.

NOV 25 2002

**Department of Modern Languages and
Cultural Studies** Charity Marsh, visiting Speaker
from York University, will give a lecture on Björk titled
"Björk's Fusion of the 'Natural' and 'Technological' in
"Homogenic": Locating Iceland in the Musical Texts."
141 Arts Building. A reception will follow in the
Faculty Lounge (320 Arts Building). 7:30 p.m.

NOV 25 2002

Distinguished Lecture Series Event sponsored
by Department of Computing Science. Professor
Witold Pedrycz, Dept. of ECE, University of Alberta, will
present "Granular Computing: An Introduction." 3:30
p.m. in Computing Science Centre (CSC) B10. Coffee
and Cookies at 3 p.m. Web site: <http://www.cs.ualberta.ca/events/dls>

NOV 26 2002

**2002 Eldon D. Foote Lecture in
International Business** Dr. Sie will address the
motivation of the Chinese government to accede to
the WTO, and the ensuing challenges, opportunities
and long term implications. Dr. Sie is a veteran in
applying cross-cultural values and cross disciplinary
understanding to technology management and business
development. 3:30 p.m., reception to follow. Free
but registration is requested: 492 2235 or
fcenres@ualberta.ca Location: Faculty Club, 11435
Saskatchewan Drive. Web site:
www.bus.ualberta.ca/cibs-wcer

NOV 26 2002

Department of English Poetry reading by
Louise Bak, in Humanities Centre, L-3 at 2:00 p.m.

NOV 26 2002

**Department of Modern Languages and
Cultural Studies** Charity Marsh, visiting Speaker
from York University, will give a lecture on Björk titled
"The Blurring of Conventional Boundaries in Björk's
Music and Music Videos." 141 Arts Building 12:30 to
1:50 p.m.

NOV 26 2002

**Department of Music and Centre for
Ethnomusicology** Music and Hinduism: A View
from Benares with guest Vinod Bhardwaj. Vinod
Bhardwaj will take us to Benares and its sacred sounds
through discussion and performance. 7:00 p.m. Studio
27, (2-7a Fine Arts Building). Free Admission.

NOV 26 2002

Inclusion or Illusion? Prof. Garry Wheeler of
the Faculty of Physical Education and Recreation will
lead a provocative discussion about the implications
of integrating persons with disabilities in mainstream
activities, based in part on his experience in athletics.
Sponsored by the Disability and Ethics Initiative, an
interdisciplinary group seeking to promote research
activities and speaker events dealing with disability
issues at the University. From 12:00 p.m. to 1:00 p.m.
Location: Corbett Hall, Room 3-21.

NOV 27 2002

Canadian Studies Café The Canadian Studies
Centre of the Faculté Saint-Jean cordially invites you
to a series of Canadian Studies Cafés at the Cité francophone,
8627 rue Marie-Anne-Gaboury (91 Street).
From 7:00 p.m. to 9:00 p.m. Dr. Ted Blodgett
Anthologie de la littérature canadienne Canadian
Anthology Literature. All presentations are bilingual
(English-French). For additional information, please
call 465-8716.

NOV 27 2002

Department of Political Science Professor
Thomas Keating presents lecture "The State and
Social Justice." 3:30 p.m. Location: Room 10-4 Tory
Building.

NOV 27 2002

Department of Public Health Sciences PHS
Colloquium & Grand Rounds. Occupational Health. Dr.
Jeremy Beach, Associate Professor, will present: Atopy
and Respiratory Health - More Questions than
Answers. 12 - 1 p.m. in Room 2-117, Clinical Sciences
Building.

NOV 27 2002

Medical Genetics Rounds Dr. Darrell Tomkins
and Dr. Brian Lowry to present: The Alberta
Congenital Anomalies Surveillance System: Trends in
Sentinel Anomalies (Neural Tube Defects, Clefts, Down
Syndrome, Complex Heart Disease). Time: 12:00 - 1:00
p.m. Location: 2-07 Heritage Medical Research Centre.

NOV 27 2002

Sigma Xi - University of Alberta chapter
Lecture by Neil Adames, Biological Sciences, on
"Checks and balances governing cell division."
Monthly meeting of the University of Alberta chapter
of Sigma Xi. Open to anyone interested in science.
Wine, cheese and discussion starting at 7:00 p.m.
Lecture begins at 7:30 p.m. Location: Computing
Science Centre 3-33, behind Athabasca Hall.
Website: <http://www.cs.ualberta.ca/sigmaksi/>

NOV 27 2002

Qualitative Research Methodology Series
Meticulous Description. Dr. Janice M. Morse. With the
attention in recent years on interpretive research, we
are forgetting and perhaps devaluing the description
as a goal of qualitative inquiry. This presentation will
re-visit description and how it fits, is used or mis-used
in qualitative inquiry. 6-10 University Extension
Centre, 8303 - 112 Street. 2 Noon to 1:00 p.m. Web
site: <http://www.ualberta.ca/~iiqm/>

NOV 27 2002

Public Lecture - Dr. Adrian Bauman
Professor Bauman is a leading international authority
on physical activity and public health. The title of his
presentation is: Physical Inactivity - The Neglected
Risk Factor; What to do about it? This presentation will
focus on media campaigns to promote physical activity.
Location: 2-115 Education North - 3 - 4 p.m.

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Department of History and Classics Annual lecture on Latin American history, given this year by Professor Kenneth R. Mills of Princeton University, who will present: The Accidental History and Ethnography of Diego de Ocaña O.S.H., ca. 1600. 3:30 p.m. in 2-9 Business Building.

NOV 28 2002

Academic Technologies for Learning "Enhancing Your Course Through Interaction." Ever wonder what's behind the deafening silence that follows your lecture? This session is for instructors who want to integrate activities into their courses that enable interaction between instructor and students or among students to enhance student learning. You will be introduced to strategies to incorporate interactive components into your course including how you can use accessible technologies such as email and WebCT. From 10:00 to 11:00 a.m. Location: Telus 214/216.

NOV 28 - 29 2002

Broadus Lectures Broadus Lectures - "Yesterday's Darlings, Grandmothers, Muses: Women

and Literary History." Nov. 28 - 3:30 p.m. Humanities Centre Lecture 1 - "The Historicity of Literary Value." Nov. 29, 3:30 p.m. Humanities Centre Lecture 1 "Continuities, Interruptions."

NOV 29 2002

Department of Philosophy Professor Joseph Almog, Department of Philosophy, Univ of California, Los Angeles, presents "Pain and Brains." 3:00 p.m. Location: Humanities Centre, 4-29.

NOV 29 2002

Department of Music The University of Alberta Concert Choir. Debra Cairns, Conductor Works by Britten, Lekberg, Loomer, Górecki, Somers, Eaton, Patriquin. 8:00 p.m.

NOV 28 - 29 2002

Killam Trusts 35th Anniversary. Nov. 28, 4 - 5 p.m. Dr. Jonathan Schaeffer, Killam Annual Professor (1997 - 1998) will give a keynote address at the TELUS Centre for Professional Development. Nov. 29, 9:30 a.m. - 11:45 a.m. Recipients of the 2002 - 2003 Killam Doctoral Scholarships will discuss their research at a poster presentation at the TELUS Centre.

ads

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REAL ESTATE - Buy or Sell, Leases (Furnished/unfurnished). Janet Fraser or Gordon W.R. King. Telephone: (780) 441-6441, www.gordonwrking-assoc.com Gordon W.R. King and Associates Real Estate Corp.

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PARKVIEW SERENE LOCATION on ravine offers fabulous executive home, fully furnished. Home offices, dream kitchen, \$3,000/month. Discover details by arranging to view. Call Janet Fraser, Gordon W.R. King and Associates Real Estate, 441-6441.

GREENFIELD FABULOUS executive bungalow. Super plan, very spacious, fully furnished. Three bedrooms, laundry on main. Finished basement. December 21, 2002. Term negotiable. \$1,400/month. Call Janet Fraser, Gordon W.R. King and Associates Real Estate, 441-6441.

SW GREENFIELD GORGEOUS executive bungalow in very desirable area. Fully furnished. Three bedrooms on main. Finished basement, home office. Near U of A. \$1,400/month. December 15, 2002 - March 31, 2003. Call Janet Fraser, Gordon W.R. King and Associates Real Estate, 441-6441.

LAURIER GEM executive bungalow. Fully furnished, double garage, huge master bedroom with ensuite. Finished basement. January 1, 2003. Lease negotiable. \$1,650/month. Call Janet Fraser, Gordon W.R. King and Associates Real Estate, 441-6441.

VICTORIA PROMENADE. Furnished one bedroom and den. View of river valley. February 1. \$1,000/month. Call Janet Fraser, Gordon W.R. King and Associates Real Estate, 441-6441.

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EXECUTIVE TWO BEDROOM bungalow style condominium in Lessard Village. Backing on to river, outdoor pool. Attached garage. Rent \$1,475 per month. Please call 445-1038 for details.

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U OF A AREA, two bedroom, two bathroom, sunny condo with gorgeous riverside view. Walking

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FURNISHED THREE-BEDROOM HOUSE, bright, spacious. Available Jan-June 2003. Southeast Edmonton, convenient to downtown, university. \$1,200/month includes utilities, cable. Non-smokers, no pets, references. DD \$1,000. (780) 451-1799.

NEW TWO BEDROOM, two bathroom penthouse condominium in attractive small apartment complex (Garneau Gates) available for rent to non-smokers. In-suite washer/dryer/fireplace. Underground heated parking/storage. Within walking distance to University. No pets. \$1,100/month, plus utilities. Teresa, (780) 352-7909.

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Chair Selection Committees:

FACULTY OF ARTS

The Faculty of Arts wishes to announce that chair selection committees have been established for the following departments: English, History and Classics, Music, and Philosophy. The committees invite nominations for the position of Chair in these departments as well as comments from members of the University community by December 31, 2002. These should be addressed to Daniel Woolf, Dean of Arts, 6-33 Humanities Centre; E-mail: artsdean@ualberta.ca.



You Are A Winner !!!

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Thank you to all who took the time to respond.



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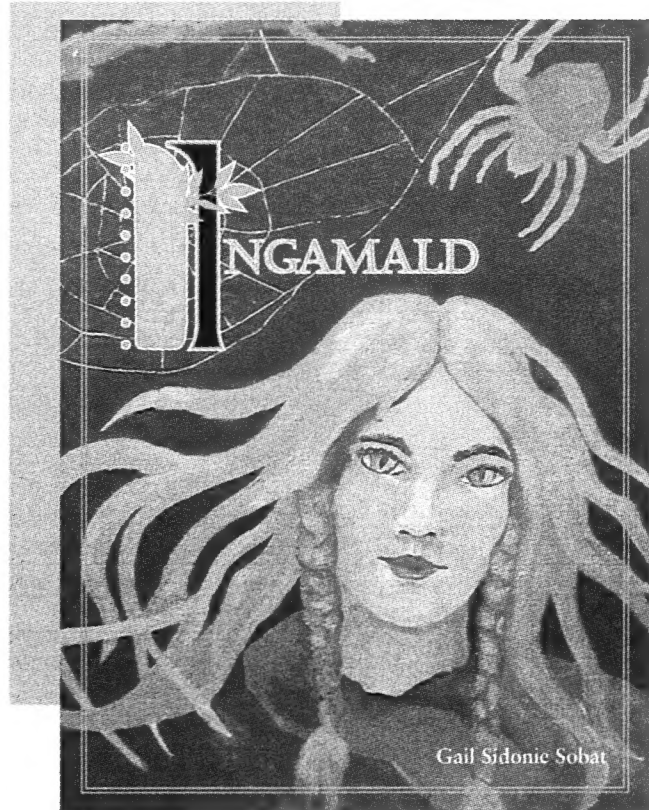
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positions

The records arising from this competition will be managed in accordance with provisions of the Alberta Freedom of Information and Protection of Privacy Act (FOIPPA). The University of Alberta hires on the basis of merit. We are committed to the principle of equity of employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal persons. With regard to teaching positions: All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

PROJECT MANAGER DEPARTMENT OF MEDICINE

The Department of Medicine invites applications for the position of Project Manager to implement the projects proposed in the current alternate funding plan for the department. The Project Manager reports to the Director of Administrative Services and will work closely with the Department Chair, the Business Manager and the divisional directors on the development, implementation, and assessment of the innovative medical service delivery initiatives developed in conjunction with the alternate funding plan.

This is a two-year term, trust funded position (with a possibility of renewal) at the level of Administrative Professional Officer with an income range of \$60,000 to \$70,000 per annum and full benefits. Applicants will have a masters level education in administration or equivalent postgraduate training with a minimum of three years experience in the health care field, preferably in the field of performance measures and knowledge of the Alberta health care system. Experience in project management preferred. Evidence of outstanding interpersonal skills and both written and oral communication skills is a necessity.

Interested applicants should submit an up-to-date curriculum vitae and include the names, addresses and telephone numbers of three referees by Nov 22, 2002 to:

J. Charles Morrison
Director, Administrative Services
Department of Medicine
Room 2F1 Mackenzie Health Sciences Centre
University of Alberta, Edmonton, Alberta T6G 2R7

RESEARCH ASSOCIATE DEPARTMENT OF ONCOLOGY

Positions are open immediately for three individuals having skills and experience in engineering, microdevice development and/or molecular biology. The candidates will be expected to have a PhD. The project involves development of microsystems for implementing cell selection, enrichment and genetic analysis of cancer. The successful candidate will have a capacity for innovation, independent thought, technical skills, flexibility, the ability to work within a co-operative group towards common goals, and good interpersonal skills in a multi-disciplinary environment.

All candidates must have demonstrated troubleshooting skills and an ability to work in an interdisciplinary environment. Microfabrication or microfluidics experience an asset. Candidates will be hired for each of the following positions:

a) A position focused upon molecular biology

with an emphasis upon single cell and cell sorting methods.

b) A position in Electrical Engineering with an emphasis upon instrumentation, its use and construction. Experience in Dielectrophoresis an asset.

c) Electrical Engineering or Physics, with an emphasis upon optics and electronics. Programming and molecular biology skills would be assets.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. Salary will be commensurate with experience. Please forward your résumé, supported by three letters of reference, by December 1, 2002 to:

Linda M. Pilarski
Room 2227, Cross Cancer Institute
Department of Oncology
11560 University Avenue, Edmonton, AB T6G 1Z2

POST DOCTORAL FELLOW DEPARTMENT OF ONCOLOGY

Positions are open immediately for three individuals having skills and experience in engineering, microdevice development and/or molecular biology. The candidates will be expected to have a PhD. The project involves development of microsystems for implementing cell selection, enrichment and genetic analysis of cancer. The successful candidate will have a capacity for innovation, independent thought, technical skills, flexibility, the ability to work within a cooperative group towards common goals, and good interpersonal skills in a multi-disciplinary environment.

All candidates must have demonstrated troubleshooting skills and an ability to work in an interdisciplinary environment. Microfabrication or microfluidics experience an asset. Candidates will be hired for each of the following positions:

a) A position focused upon molecular biology with an emphasis upon single cell and cell sorting methods.

b) A position in Electrical Engineering with an emphasis upon instrumentation, its use and construction. Experience in Dielectrophoresis an asset.

c) Electrical Engineering or Physics, with an emphasis upon optics and electronics. Programming and molecular biology skills would be assets.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. Salary will be commensurate with experience. Please forward your résumé, supported by three letters of reference, by December 1, 2002 to:

Linda M. Pilarski
Room 2227, Cross Cancer Institute
Department of Oncology
11560 University Avenue, Edmonton, AB T6G 1Z2

notices

Please send notices attention Folio, 6th floor General Services Building, University of Alberta, T6G 2H1 or e-mail publicaffairs@ualberta.ca. Notices should be received by 3 p.m. one week prior to publication.

ADVISORY SEARCH FOR PROVOST AND VICE-PRESIDENT (ACADEMIC): INPUT FROM THE COMMUNITY

On June 28, 2002, President Fraser advised of Dr. Doug Owrans decision to conclude his term as Provost and Vice-President (Academic), effective June 30, 2003. The President has now initiated the process for a search for a new Provost and Vice-President (Academic).

Members of the University community are now invited to provide their input on both current issues and priorities of the Provost and Vice-President (Academic)'s Office as well as candidate requirements for the Provost and Vice-President (Academic). In order to facilitate the Committee's work, kindly send your comments and/or suggestions by November 22, 2002 to any member of the Advisory Search Committee or to:

Garry Bodnar, Secretary to the Advisory Search Committee
for Provost and Vice-President (Academic)
c/o University Secretariat
2-5 University Hall
University of Alberta
Edmonton, AB T6G 2J9
Telephone Number: (780) 492-4733
E-Mail address: garry.bodnar@ualberta.ca
Confidential Fax Number: (780) 492-2693
The members of the Advisory Search Committee are:

Rod Fraser, President
president@ualberta.ca
Catherine Roozen, Board Representative
highsmith@shawbiz.ca
Ove Minsos, Board Representative
minsos@telusplanet.net
Ian Morrison, Dean, Faculty of Agriculture, Forestry, and Home Economics

ian.morrison@ualberta.ca

John Kennelly, Chair, Agricultural, Food, and Nutritional Science chair@afns.ualberta.ca

Duane Szafron, Academic Staff Representative
duane@cs.ualberta.ca

David Hik, Academic Staff Representative
david.hik@ualberta.ca

Dennis Vance, Academic Staff Representative
dennis.vance@ualberta.ca

John Hoddinott, AA:SUA Representative
john.hoddinott@ualberta.ca

Joy Correia, NASA Representative
joy.correia@ualberta.ca

Dan Preece, Graduate Students' Association Representative
gsavpac@ualberta.ca

Mat Brechtel, Students' Union Representative
mat.brechtel@su.ualberta.ca

Gregory Harlow, Students' Union Representative
gregory.harlow@su.ualberta.ca

A position description for Provost and Vice-President (Academic) will be posted on the University Secretariat's Web site (www.ualberta.ca/~unisecr).

WILLIAM HARDY ALEXANDER AWARD FOR EXCELLENCE IN SESSIONAL TEACHING

The University Teaching Awards Committee (UTAC) announces to the university community that nominations are now being sought for the William Hardy Alexander Award for Excellence in Sessional Teaching.

The purpose of the William Hardy Alexander Award is to recognize excellent teaching by sessional academic staff, to publicize such excellence to the university and the wider community, to encourage the pursuit of excellence in teaching, and to promote informed discussion of teaching and its improvement

at the University of Alberta.

Nominations are made by faculties that teach undergraduate students, and information about the nomination procedures and adjudication criteria has been sent to those faculties. Nominations should be made through a faculty committee and submitted by the faculty to the secretary of UTAC, 2-5 University Hall. Anyone who needs assistance and advice in preparing nominations should contact Ms Bente Roed, Director, University Teaching Services, 215 Central Academic Building (492-2826). The deadline for receipt of award nominations is Friday, February 28, 2003 at 4:30 p.m. In most cases, individual faculties have established earlier deadlines to allow for internal adjudication procedures.

A maximum of two awards are given annually. Award recipients are publicly recognized at a special reception, at Convocation, and at the Celebration of Teaching and Learning. They also receive a memento and a cash prize of \$3,000. The prize is awarded to the recipients as a cheque.

RUTHERFORD AWARD FOR EXCELLENCE IN UNDERGRADUATE TEACHING

The GFC University Teaching Awards Committee (UTAC) announces to the university community that nominations are now being sought for the annual Rutherford Award for Excellence in Undergraduate Teaching.

The purpose of the Rutherford Award is to recognize excellent teaching, to publicize such excellence to the university and the wider community, to encourage the pursuit of excellence in teaching, and to promote informed discussion of teaching and its improvement at the University of Alberta.

Nominations are made by faculties that teach undergraduate students, and information about the nomination procedures and adjudication criteria has been sent to those faculties. Nominations should be made through a faculty committee and submitted by the faculty to the secretary of UTAC, 2-5 University Hall. Anyone who needs assistance and advice in preparing nominations should contact Ms Bente Roed, Director, University Teaching Services, 215 Central Academic Building (492-2826). The deadline for receipt of award nominations is Friday, February 28, 2003 at 4:30 p.m. In most cases, individual faculties have established earlier deadlines to allow for internal adjudication procedures.

At least one award, but not more than five, is given annually. Award recipients are publicly recognized at a special reception, at Convocation, and at the Celebration of Teaching and Learning. They also receive a memento and a cash prize of \$3000. The prize is awarded to the recipients as a cheque.

NOMINATIONS FOR ACADEMIC STAFF TO SERVE ON THE BOARD OF GOVERNORS

Two academic staff representatives serve on the Board of Governors on nomination by General Faculties Council. As of January 25, 2003, there will be a vacancy on the Board of Governors for one academic staff representative. This position is currently held by Dr. Fordyce Pier, Chair, Department of Music. The other academic representative on the board is Dr. Reuben Kaufman, Department of Biological Sciences. An election will now take place to fill the upcoming vacancy on the Board of Governors.

The procedures which govern this election are contained in Section 22 of the GFC Policy Manual and are available from the University Secretariat, 2-5 University Hall, and on the World Wide Web (www.ualberta.ca/~unisecr/). These regulations provide that "the two academic staff members who serve on the Board of Governors must come from Category A1.0, at least one of whom shall be a member of Category A1.1 who does not hold one of the following administrative positions at the time of the initial nomination: Vice-President, Associate or Assistant Vice-President, Dean, Director of Native Studies, Associate or Assistant Dean, or Department Chair." Category A1.0 includes all staff who are continuing full-time and part-time Faculty, APOs, FSOs, Librarians, and Soft-Tenure Faculty. Nominees must be employed

in Category A1.0 throughout the term of appointment to the board and, in addition, must be willing and able to serve for the full term of appointment on a continuous basis. A full term on the board is normally three years. If there is a question about a candidate's eligibility, the GFC Executive will decide. Since Dr Reuben Kaufman is a member of Category A1.1 and does not hold an administrative position, the vacancy to be filled is open to any member of Category A1.0.

The Nomination Procedures are as follows:
Nominations may be submitted in writing to Mr. Garry Bodnar, Acting Secretary to GFC, 2-5 University Hall.

Nominations must be RECEIVED in the University Secretariat no later than 4:30pm Tuesday, November 26, 2002.

Nominations must be supported by the signatures of five full-time or part-time continuing academic staff (other than the nominee).

Nominees must be willing and able to serve and normally will serve a three-year term on both the Board and General Faculties Council.

A biographical sketch of the nominee should accompany the letter of nomination.

As the University Secretariat receives nominations, the names will be posted on the University Secretariat Web site at www.ualberta.ca/~unisecr.

Any questions about these procedures should be directed to Mr. Garry Bodnar at 492-4733 or by e-mail (garry.bodnar@ualberta.ca).

BIOLOGICAL SCIENCES CHAIR SELECTION

The Chair Selection Committee for the Department of Biological Sciences has been established. Applications, nominations, suggestions, and comments are welcome. These can be submitted to the Committee Chair at the address below.

The Department of Biological Sciences is currently made up of 70 faculty, 72 support staff and approximately 270 graduate students (MSc and PhD). The Department of Biological Sciences offers more than 100 courses to undergraduate students. The recent exciting growth in all areas of biological sciences touches all parts of society and opportunities for graduates with a solid understanding of biology are numerous, highly varied, and wide reaching. Research activities generate approximately \$12.9 million in funding support. Further information can be obtained from the World Wide Web at <http://www.biology.ualberta.ca/>.

Applications, accompanied by a résumé, and nominations should be submitted by Monday December 2, 2002 to Dr. Helmy Sherif, Chair of the Biological Sciences Chair Selection Committee, Faculty of Science, CW223 Biological Sciences or by electronic mail to sherif@phys.ualberta.ca.

COMPUTING SCIENCE CHAIR SELECTION

The Chair Selection Committee for the Department of Computing Science has been established. Applications, nominations, suggestions, and comments are welcome. These can be submitted to the Committee Chair at the address below.

The Department of Computing Science is currently made up of 46 faculty, 36 support staff and approximately 224 graduate students (MSc and PhD). The department is characterized as a young and active department – yet one of the oldest computer science departments in Canada, having been established in 1964. Approximately 85 students graduate annually from BSc Programs with Specialization or Honors in Computing Science. Research activities generate approximately \$6.03 million in funding support. Further information can be obtained from the World Wide Web at <http://www.cs.ualberta.ca/>.

Applications, accompanied by a résumé, and nominations should be submitted by Monday December 2, 2002 to Dr. Gregory Taylor, Acting Dean of Science, Faculty of Science, CW223 Biological Sciences or by electronic mail to gregory.taylor@ualberta.ca.



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The U of A in caps, gowns, beanies, and bedrolls

Exhibit examines the fabric of our past

By Ryan Smith

A way from the noise of construction cranes and bulldozers that fills much of the air at the University of Alberta, there is a quiet place on the western edge of campus where one can contemplate the real fabric with which this school was built. Literally. The Rites of Passage exhibit in the lobby of the Human Ecology Building tells the history of the U of A with garments.

Out of the 18,000 artifacts in the U of A textile collection, Anne Lambert, a professor and curator in the U of A Department of Human Ecology, chose items for the exhibit that help to explain the significant moments in the lives of past students, professors, and staff.

"The university is growing at an enormously fast pace, and it's easy to lose touch with our roots – where we are growing out of – if we don't pay attention...This collection is meant to show what has happened in the past, and how that has shaped our present and our future," Lambert said.

As the text supplement to the exhibit explains, from 1908, when the U of A was established, to 1920, professors and students were required to wear an academic gown to class. Some of the gowns from that era are on display.

In the exhibit hangs a hockey sweater – a real wool sweater, number six – that belonged to Jack McConnell, who played for the Golden Bears in the mid-to-late 1930s. The gold sweater with green stripes on the arms doesn't look like it

would fit an average teenager today.

"They didn't wear the same equipment hockey players wear today, so the uniforms were much smaller back then," Lambert explained.

"It was the Depression and there wasn't a lot of money around," she added. "Each hockey player had his own sweater, which had to last his whole career. If anything happened to it and he couldn't wear it he was off the team."

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– Anne Lambert

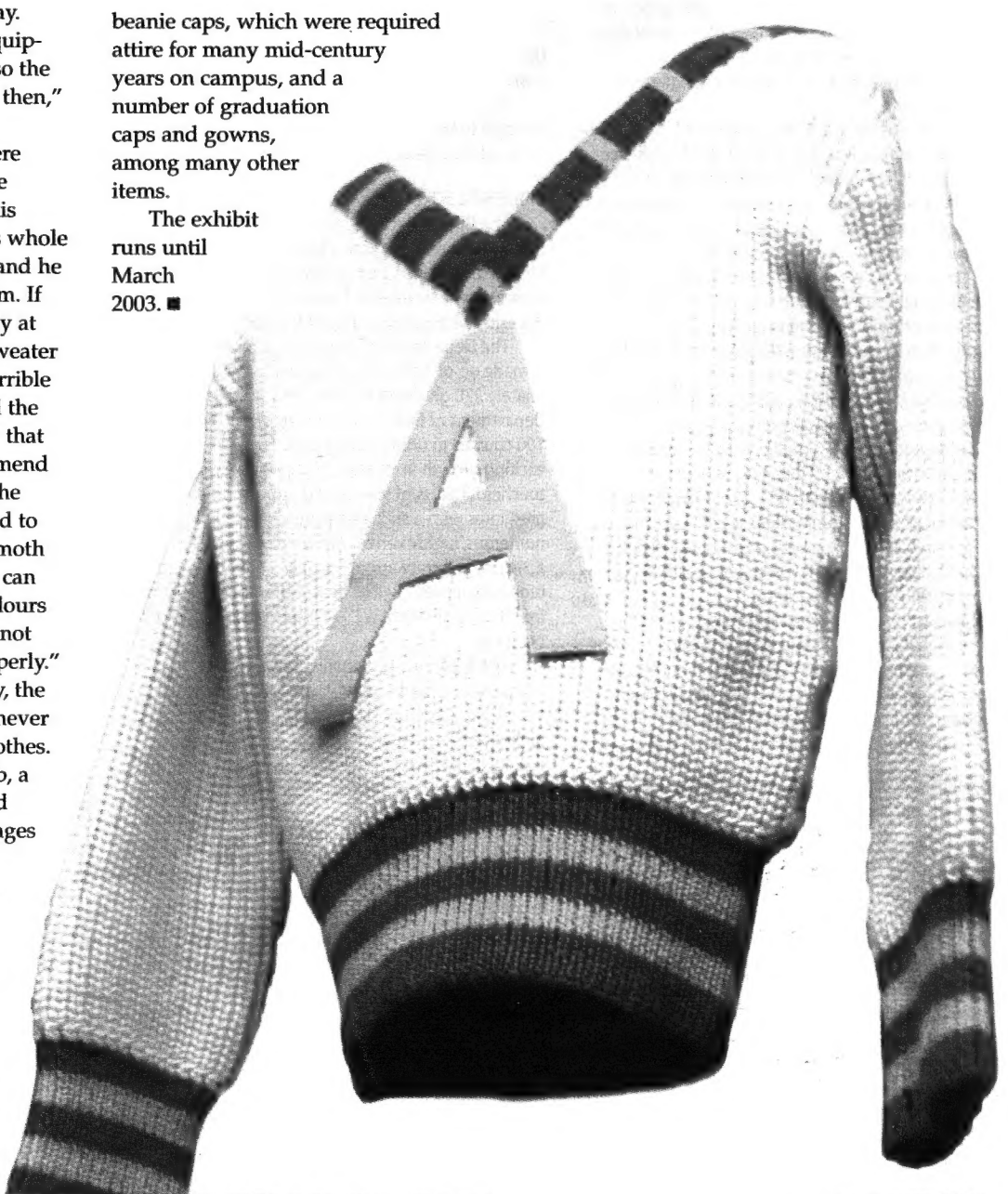
However, Henry Marshall Tory, the founding president at the U of A, never had much trouble with darning clothes. Tory belonged to the Comfort Club, a group of U of A students, staff, and professors who would make packages of goods, including hand-knitted vests and socks, and send them to Canadian soldiers serving in the First World War.

Text in the exhibit states that Tory "was renowned for his skill at turning a wheel – less skilled knitters passed socks over to the president to complete the difficult parts."

The exhibit includes freshman

beanie caps, which were required attire for many mid-century years on campus, and a number of graduation caps and gowns, among many other items.

The exhibit runs until March 2003. ■



photos by Chul Ang-Jeong

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